SANYO

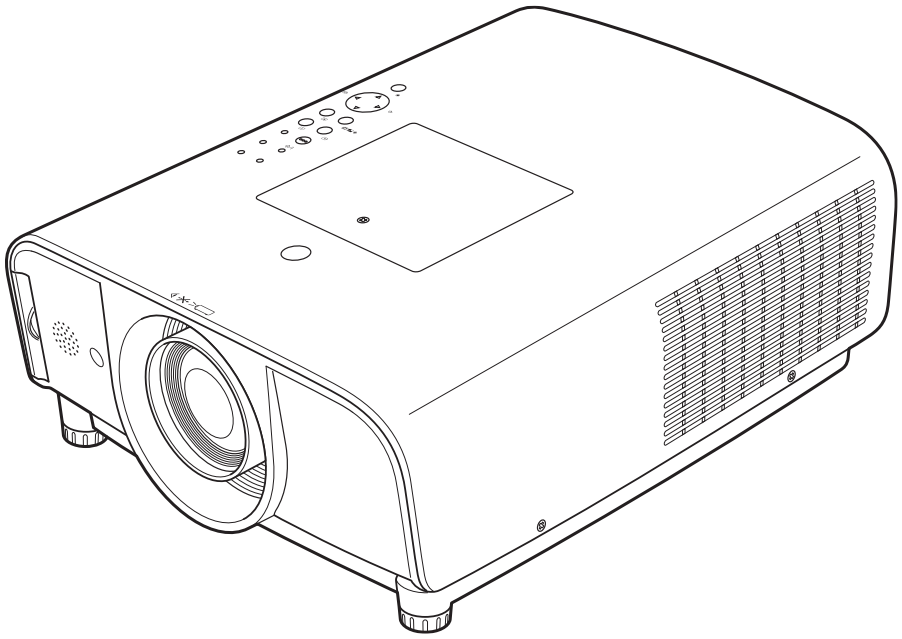
FILE NO.

SERVICE MANUAL

Multimedia Projector

Model No. PLC-XT35
PLC-XT35L
U.S.A, Canada,
Europe, U.K, Asia

Original Version



** PLC-XT35L--- without Projeccton Lens.*

Match the Chassis No. on the unit's back cover with the Chassis No. in the Service Manual.
If the Original Version Service Manual Chassis No. does not match the unit's, additional Service Literature is required. You must refer to "Notices" to the Original Service Manual prior to servicing the unit.

→

Chassis No. KP3-XT3500
KP3-XT35L00

PRODUCT CODE

PLC-XT35	PLC-XT35L
1 122 404 00	1 122 404 20
1 122 405 00	1 122 405 20
1 122 405 02	1 122 405 22

REFERENCE NO. SM5110907-00

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Safety Instructions

Safety Precautions

WARNING:
The chassis of this projector is isolated (COLD) from AC line by using the converter transformer. Primary side of the converter and lamp power supply unit circuit is connected to the AC line and it is hot, which hot circuit is identified with the line (⎓) in the schematic diagram. For continued product safety and protection of personnel injury, servicing should be made with qualified personnel.

The following precautions must be observed.

1: An isolation transformer should be connected in the power line between the projector and the AC line before any service is performed on the projector.

2: Comply with all caution and safety-related notes provided on the cabinet back, cabinet bottom, inside the cabinet or on the chassis.

3: When replacing a chassis in the cabinet, always be certain that all the protective devices are installed properly, such as, control knobs, adjustment covers or shields, barriers, etc.

DO NOT OPERATE THIS PROJECTOR WITHOUT THE PROTECTIVE SHIELD IN POSITION AND PR OPERLY SECURED.

4: Before replacing the cabinet cover, thoroughly inspect the inside of the cabinet to see that no stray parts or tools have been left inside.

Before returning any projector to the customer, the service personnel must be sure it is completely safe to operate without danger of electric shock.

Product Safety Notice

Product safety should be considered when a component replacement is made in any area of the projector. Components indicated by mark ⚠ in the parts list and the schematic diagram designate components in which safety can be of special significance. It is, therefore, particularly recommended that the replacement of there parts must be made by exactly the same parts.

Service Personnel Warning

Eye damage may result from directly viewing the light produced by the Lamp used in this equipment. Always turn off Lamp before opening cover. The Ultraviolet radiation eye protection required during this servicing.
Never turn the power on without the lamp to avoid electric-shock or damage of the devices since the stabilizer generates high voltages (15kV - 25kV) at its starts.
Since the lamp is very high temperature during units operation replacement of the lamp should be done at least 45 minutes after the power has been turned off, to allow the lamp cool-off.

DO NOT ATTEMPT TO SERVICING THE REMOTE CONTROL UNIT.

Laser Beam may be leaked out when in disassemble the Unit. As the Laser Beam used in this Remote control unit is harmful to the eyes.
If the remote control unit is failed, replace with new one.

Specifications

Mechanical Information

Projector Type	Multi-media Projector
Dimensions (W x H x D)	13.7" x 6.46" x.17.48" (348.1 mm x 164 mm x 444 mm) (Not including adjustable feet)
Net Weight	17.86 lbs (8.1 kg)
Feet Adjustment	0˚ to 5.0˚

Panel Resolution

LCD Panel System	1.0" TFT Active Matrix type, 3 panels
Panel Resolution	1,024 x 768 dots
Number of Pixels	2,359,296 (1,024 x 768 x 3 panels)

Signal Compatibility

Color System	PAL, SECAM, NTSC, NTSC4.43, PAL-M, and PAL-N
High Definition TV Signal	480i, 480p, 575i, 575p, 720p, 1035i, and 1080i
Scanning Frequency	H-sync. 15 kHz–100 kHz, V-sync. 50 Hz–100 Hz

Optical Information

Projection Image Size (Diagonal)	Adjustable from 30" to 300" (PLC-XT35)
Throw Distance	3.9'–32.8' (1.2 m–10.0 m) (PLC-XT35)
Projection Lens	F=1.7 to 2.1, f=33 to 43 mm with motor zoom and focus (PLC-XT35)
Projection Lamp	330 W

Interface

Input 1	Digital (DVI-D) x 1, Analog (Mini D-sub 15 pin) x 1
Input 2	BNC Type x 5 (G or Video/Y, B or Cb-Pb, R or Cr-Pr, HV and V)
Input 3	RCA Type x 1, Mini DIN 4 pin x 1
AUDIO IN	Audio 1 (Mini Type stereo), Audio 2 (Mini Type stereo), Audio 3 (RCA Type) x 2
Analog Out	Mini D-sub 15 pin x 1
Audio Out	Audio (Mini Type stereo) x 1
R/C Jack	Mini Type (Wired Remote) x 1
Control Port	Mini DIN 8 pin x 1
USB Connector	USB Series B x 1
Option	PJ-Net Organizer Terminal x 1

Audio

Internal Audio Amp	1.0 W RMS
Built-in Speaker	1 speaker, ø1.1" (28 mm)

Power

Voltage and Power Consumption	AC 100–120 V (4.6A Max. Ampere), 50/60 Hz (The U.S.A and Canada) AC 200–240 V (2.3A Max. Ampere), 50/60 Hz (Continental Europe and The U.K.)

Operating Environment

Operating Temperature	41˚F–95˚F (5˚C–35˚C)
Storage Temperature	14˚F–140˚F (-10˚C–60˚C)

Remote Control

Battery	AAA or LR03 Type x 2
Operating Range	16.4' (5 m/±30˚)
Dimensions	1.8" (W) x 1.0" (H) x 5.7" (D) (45 mm x 25 mm x 145 mm)
Net Weight	3.5 oz (99 g) (including batteries)
Laser Pointer	Class II Laser (Max. Output: 1 m W/Wave length: 640–660 nm)

c UL US LISTED

This symbol on the nameplate means the product is Listed by Underwriters Laboratories Inc. It is designed and manufactured to meet rigid U.L. safety standards against risk of fire, casualty and electrical hazards.

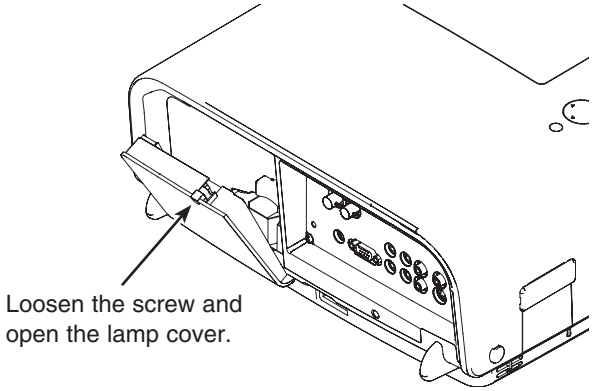
Circuit Protections

This projector provides the following circuit protections to operate in safety. If the abnormality occurs inside the projector, it will automatically turn off by operating one of the following protection circuits.

Fuse

A fuse is located inside of the projector. When the POWER indicator is not lightning, the fuse may be opened. Check the fuse as following steps.
The fuse should be used with the following type;

Fuse Part No. : 323 027 2605
TYPE T10.0AH 250V FUSE
215010. LITTEL

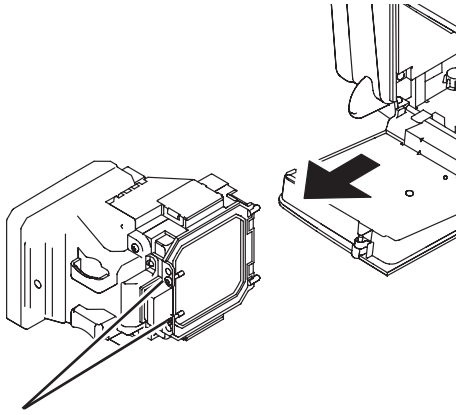


Loosen the screw and open the lamp cover.

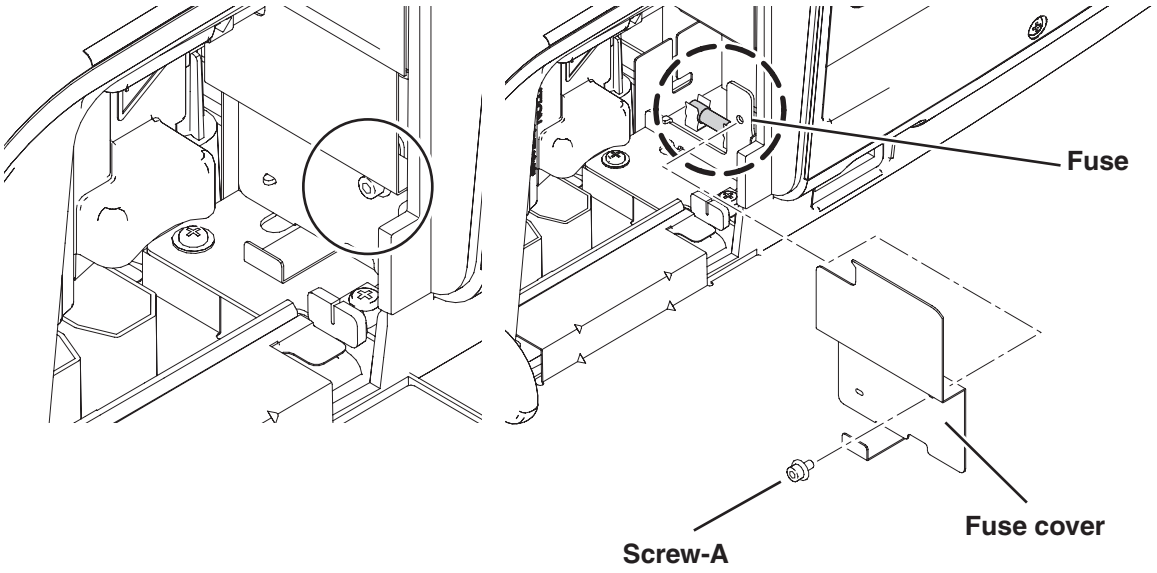
How to replace the fuse

1. Loosen the screw of the lamp cover and open the lamp cover.
2. Loosen 2 screws of lamp ass'y and pull out the lamp ass'y.
3. Remove the screw-A and remove the fuse cover following to "Mechanical Disassemblies".
4. Remove the fuse from fuse holder on the Power(Filter) board .

To install the fuse, take reversed step in the above.

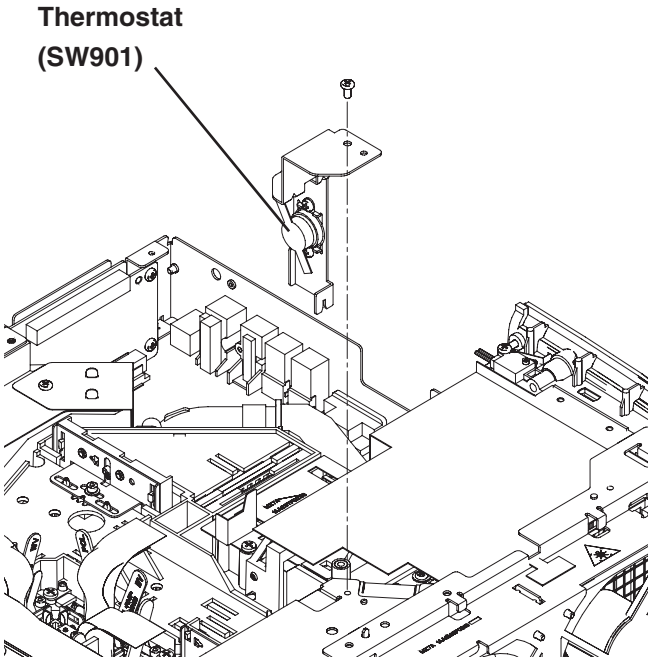


Loosen the 2 screws and pull out the lamp ass'y.



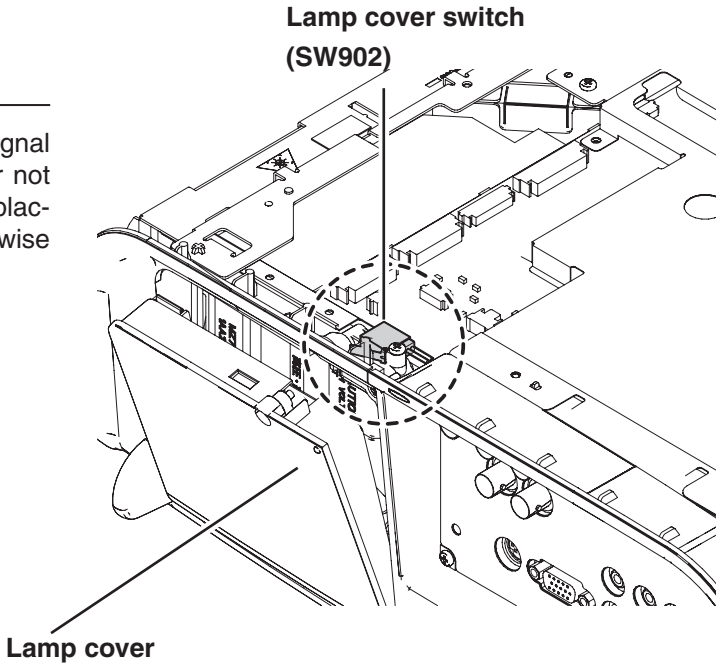
Thermostat (SW901)

There is the thermostat (SW901) inside of the projector to detect the internal temperature rising abnormally. When the internal temperature reaches near 100˚C, the thermostat opens to stop the operation of the power supply circuit.
The thermostat will automatically return to normal condition when the internal temperature becomes normal (about 60˚C).



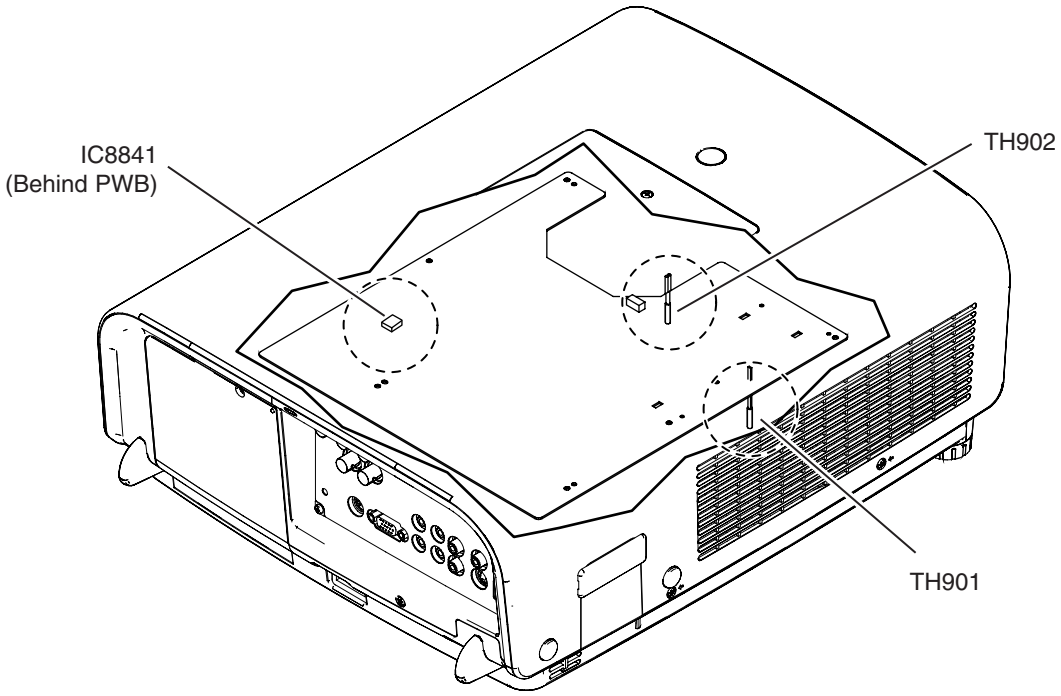
Lamp cover switch (SW902)

The lamp cover switch (SW902) cuts off the drive signal to the lamp circuit when the lamp cover is removed or not closed completely. After opening the lamp cover for replacing the lamp ass'y, place the lamp cover correctly otherwise the projector can not turn on.



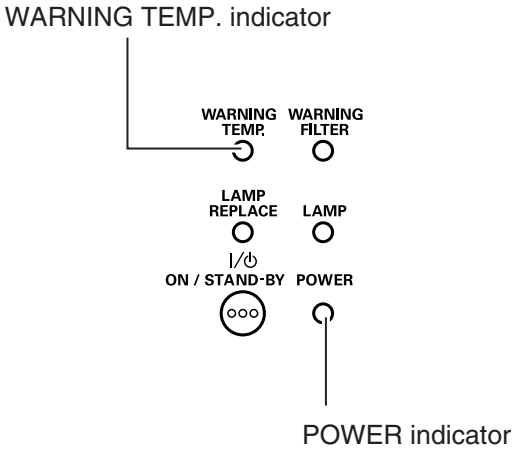
Temperature sensors (TH901, TH902, IC8841)

The projector provides a temperature sensor IC on the Main board and 2 thermistors. The temperature sensor IC monitors around the lamp house, the thermistors are placed on the blue panel holder and on the intake duct.
- Internal temperature sensor A (IC8841) (around the lamp house)
- Panel sensor B (TH902) (around the blue panel)
- Room temperature sensor C (TH901) (around the intake duct)



The projector is shut down and the WARNING TEMP. indicator is blinking red.

When the temperature inside the projector reaches a certain level, the WARNING TEMP. indicator is blinking slowly. When the inside temperature becomes high, the projector will be automatically shut down to protect the inside of the projector. The WARNING TEMP. indicator is blinking faster and the POWER indicator is blinking. The POWER indicator is blinking while the projector is being cooled down. When the projector has cooled down enough (to its normal operating temperature), it can be turned on again by pressing the ON/STAND-BY button.



✔***Note:***
- The WARNING TEMP. indicator continues to blink even after the temperature inside the projector returns to normal. When the projector is turned on again, the WARNING TEMP. indicator stops blinking.

Power failure and fan lock detection

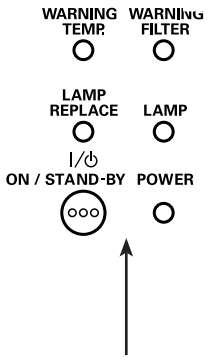
The projector provides the detection circuits of the power failure and the fan lock. When the detection circuit detects an error at the power supply line or at the fan operation circuit, the projector will turn into the standby mode to protect the other circuits defective.

The projector is shut down and all five indicators are blinking.

When the projector detects an abnormal condition, it will be automatically shut down to protect the inside of the projector and all five indicators on the top panel blink. In this case, unplug the AC power cord and plug it, and then turn on the projector once again to verify operation. If the projector cannot be turned on and these indicators are still blinking, unplug the AC power cord.

CAUTION
DO NOT LEAVE THE PROJECTOR WITH THE AC POWER CORD CONNECTED UNDER AN ABNORMAL CONDITION. IT MAY RESULT IN FIRE OR ELECTRIC SHOCK.

Top Control



All five indicators are blinking

Maintenance

Cleaning the Air Filter

Filter prevents dust from accumulating on the optical elements inside the projector. Should the filter becomes clogged with dust particles, it will reduce cooling fans' effectiveness and may result in internal heat buildup and adversely affect the life of the projector. If a "Filter warning" icon (yellow or red) appears on the screen and the WARNING FILTER indicator lights or blinks, clean the filter immediately. Clean the filter by following the steps below.

1 Turn off the projector, and unplug the AC power cord from the AC outlet.

2 First, clean up the dust on the projector and around the air vents.

3 Pull out the filter cover from the projector and then remove the filter.

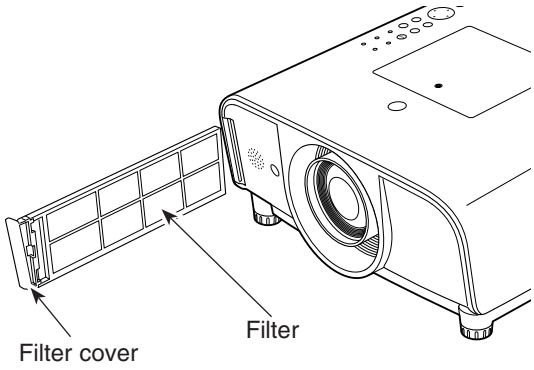
4 Gently clean the filter by using a brush or blower.

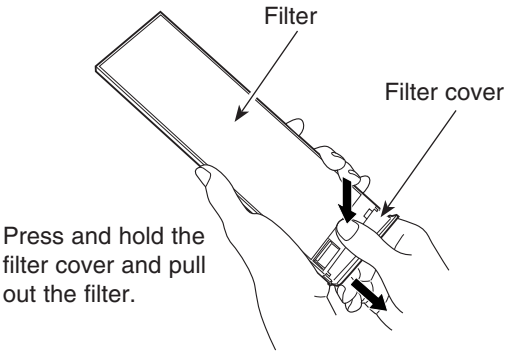
WARNING: Do not wash the filter with water and any other liquid matter. Otherwise the filter may be damaged.

5 Reinstall the filter into the projector properly.

6 Reset the filter counter in the Setting Menu. See "Resetting the Filter Counter" below.

CAUTION
Do not operate the projector with the filter removed. Dust may accumulate on the optical elements degrading picture quality.
Do not put anything into the air vents. Doing so may result in malfunction of the projector.





NOTE: If the filter is heavily clogged and unable to clean, replace it with a new one. Consult your dealer for details.

Replacement Filter Part No.: 910 330 7184

Resetting the Filter Counter

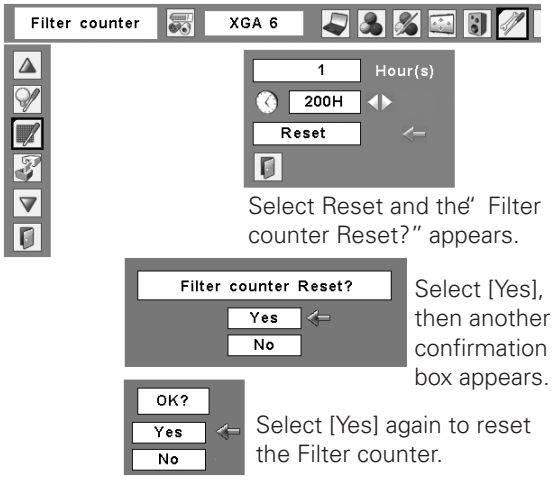
Be sure to reset the Filter counter after cleaning or replacing the filter.

1 Press the MENU button to display the On-Screen Menu. Use the Point ◀ ▶ buttons to move the red framed pointer to the Setting Menu icon.

2 Use the Point ▲▼ buttons to move the red framed pointer to Filter counter and then press the SELECT button. A dialog box appears showing the total accumulated time of the filter use, a timer setting option, and the reset option. Select Reset and the "Filter counter Reset?" appears. Select [Yes] to continue.

3 Another confirmation dialog box appears, select [Yes] to reset the Filter counter.

Filter counter

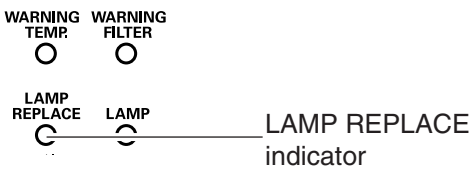


Lamp Replacement

When the projection lamp of the projector reaches its end of life, the Lamp replacement icon appears on the screen and LAMP REPLACE indicator lights yellow. Replace the lamp with a new one promptly. The timing when the LAMP REPLACE indicator should light is depending on the lamp mode.

WARNING:
TURN OFF THE UV LAMP BEFORE OPENING THE LAMP COVER

Top Control



Lamp replacement icon

CAUTION

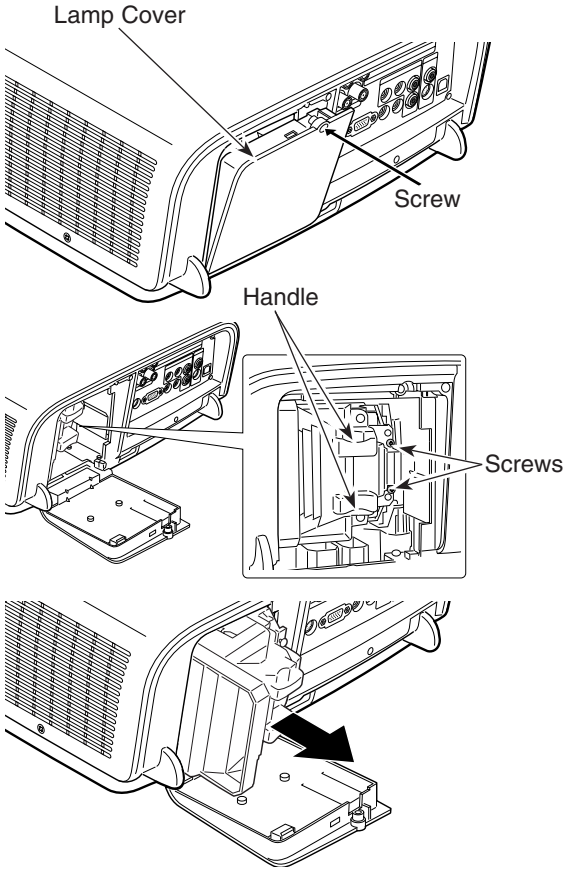
Allow a projector to cool for at least 45 minutes before you open the Lamp cover. The inside of the projector can become very hot.

CAUTION

For continued safety, replace with a lamp of the same type lamp. Do not drop the lamp or touch the glass bulb! The glass can shatter and may cause injury.

Follow these steps to replace the lamp.

1. Turn off the projector and unplug the AC power cord. Let the projector cool for at least 45 minutes.
2. Remove the screw that secures the lamp cover, and then open the lamp cover.
3. Remove the two (2) screws that secure the lamp. Lift the lamp out of the projector by using the handle.
4. Replace the lamp with a new one and secure the two (2) screws. Make sure that the lamp is set properly. Put the lamp cover back and secure it with the screw.
5. Connect the AC power cord to the projector and turn on the projector.
6. Reset the lamp counter.
See “Resetting the Lamp Counter” on the next page.



ORDER REPLACEMENT LAMP

Type No.	**POA-LMP116**
Service Parts No.	**610 335 8093**

Resetting the Lamp Counter

Be sure to reset the Lamp counter after the lamp is replaced. When the Lamp counter is reset, the LAMP REPLACE indicator stops lighting and the Lamp replacement icon disappears.

1 Press the MENU button to display the On-Screen Menu. Use the Point ◀ ▶ buttons to move the red framed pointer to the Setting Menu icon.

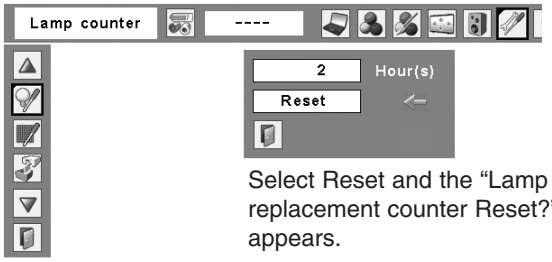
2 Use the Point ▲▼ buttons to move the red framed pointer to Lamp counter and then press the SELECT button. A dialog box appears showing the total accumulated time of the lamp usage and the reset option. Select Reset and the "Lamp replacement counter Reset?" appears. Select [Yes] to continue.

3 Another confirmation dialog box appears, select [Yes] to reset the Lamp counter.

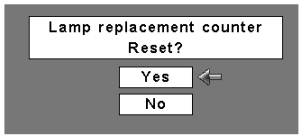
✔***Note:***

- Do not reset the Lamp counter without implementing lamp replacement. Be sure to reset the Lamp counter only after replacing the lamp.

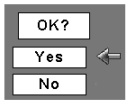
Lamp counter



Select Reset and the "Lamp replacement counter Reset?" appears.



Select [Yes], then another confirmation box appears.



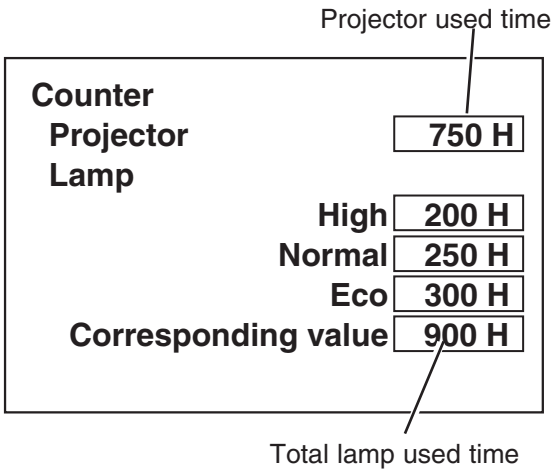
Select [Yes] again to reset the Lamp counter.

How to check Lamp Used Time

The LAMP REPLACE indicator will light yellow when the total lamp used time (Corresponding value) reaches 3,000 hours. This is to indicate that lamp replacement is required.
The total lamp used time is calculated by using the below expression,
Total lamp used time (Corresponding value) = **T***eco* + (**T***normal* x 1.2) + (**T***high* x 1.5)

T*eco*: used time in the Eco mode
T*normal* : used time in the Normal mode
T*high* : used time in the High mode

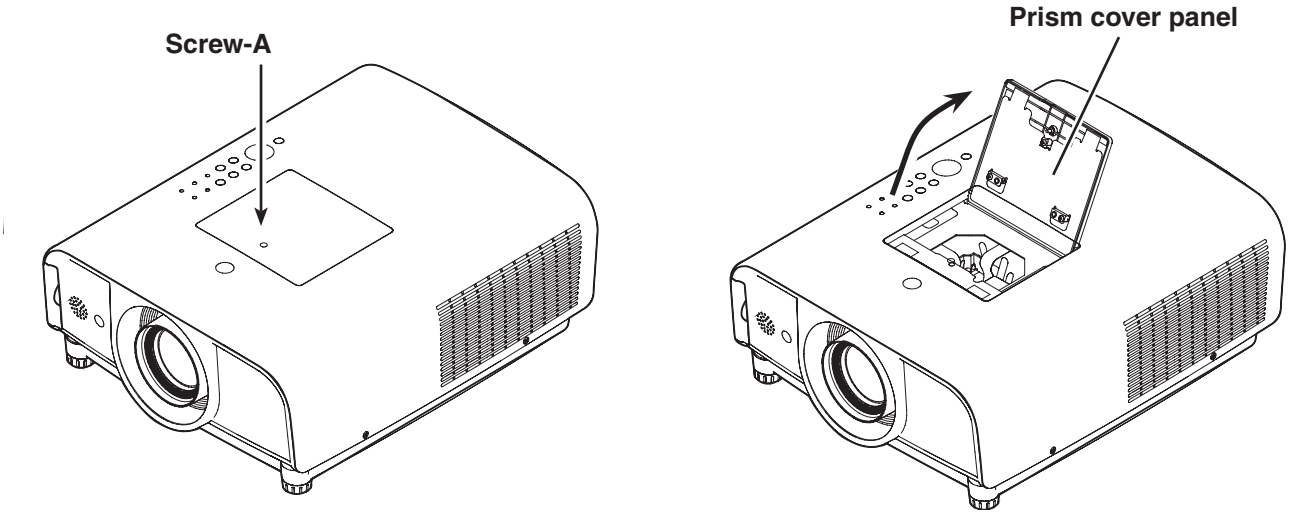
You can check the lamp used time following to the below procedure.
1 Press and hold the **ON/STAND-BY** button on the projector for more than 20 seconds.
2 The projector used time and lamp used time will be displayed on the screen briefly as follows.

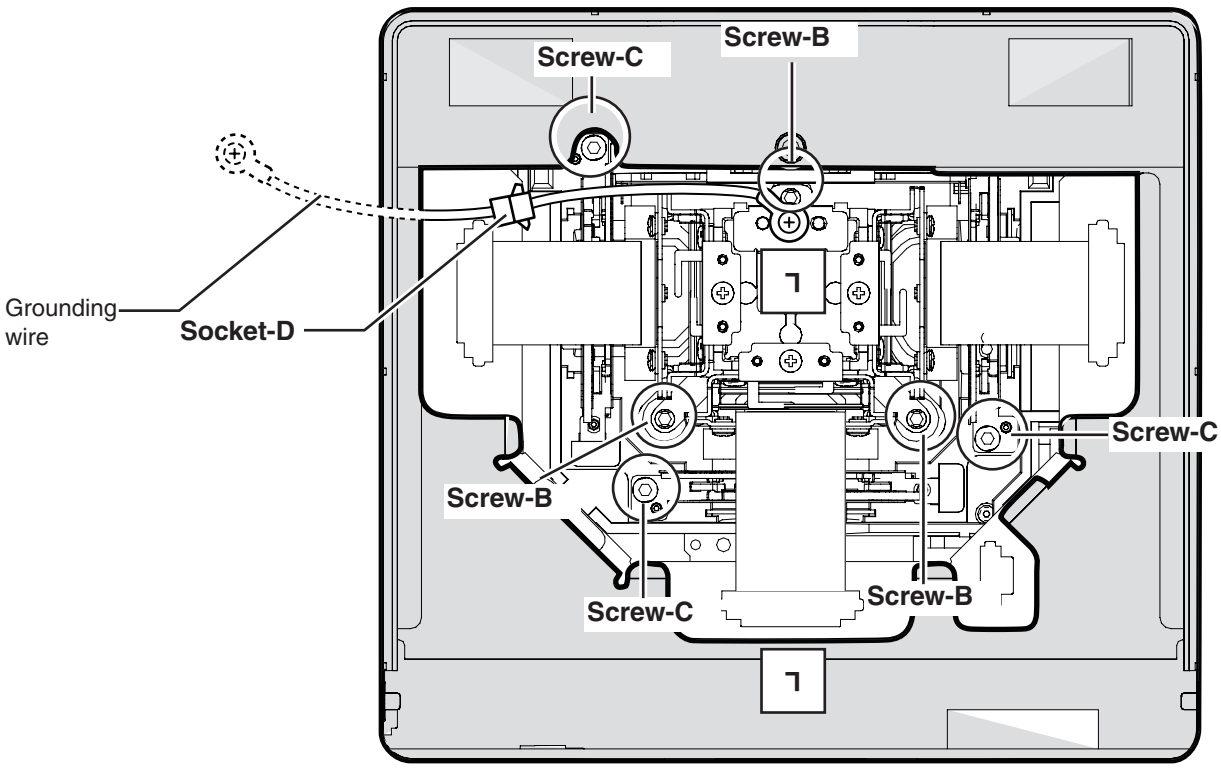


Quick maintenance

This projector provides a prism cover on the cabinet top to enhance the service maintenance. This enables service personnel to align the optical adjustment or replace the optical parts without disassembly the cabinet top.

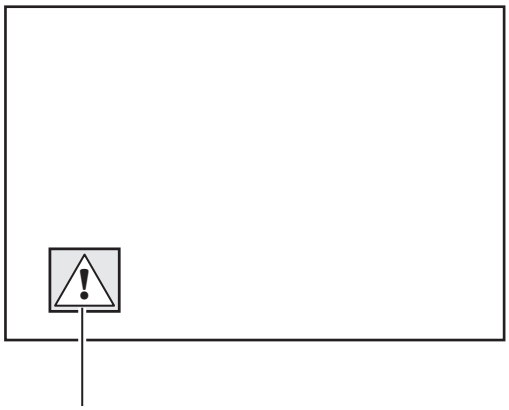
1. Loosen 1 screw-A and open the prism cover panel.
2. To remove the LCD Panel/Prism ass'y, loosen 3 screws-B and disonnect a socket-D, and then pull the LCD Panel/ Prism ass'y up.
3. To remove the Optical filter ass'y, remove a screw-C on each stopper of the Optical filter ass'y and then pull the Optical filter ass'y up.





Prohibition of motor control

This projector provides a function to prohibit the operation of motors. After installing the projector and then setting up this function. You can protect the unexpected operation by the users. All the motor controls, Focus, Zoom and Lens-shift, will not be operated. The prohibition icon will appear on the screen when user presses any of the motor control buttons.



Setting up procedures

1. Enter the service mode.
2. Select Group no. "200" and Item no. "55". Change Data value from "0" (Not prohibited) to "1" (Prohibited). Now the motor control is prohibited.
3. Exit from the service mode.

To cancel the prohibition mode, set value to "0" in the step 2.

* How to enter the service mode and select the group, item and data value, see "Service Adjustment Menu Operation".

Security Function Notice

This projector provides security functions such as "Key lock", "PIN code lock" and "Logo PIN code lock". When the projector has set these security function on, you are required to enter correct PIN code to use the projector. If you do not know the correct PIN code to the projector, the projector can no longer be operated or started. In this case, you must reset those function first according to the resetting procedure described below and then check up on the projector.

Function	Description
Key lock	Locks operation of the top control or the remote control. If the Key lock is enabled with top control lock, the projector can no longer be started. *Initial setting: Key lock function is disabled*
PIN code lock	Prevents the projector from being operated by an unauthorized person. *Initial code: "1234"*
Logo PIN code lock	Prevents an unauthorized person for changing the start-up logo on the screen. *Initial code: "4321"*

Resetting procedure

1 Disconnect the AC power cord from the AC outlet.

2 As pressing the **SELECT** button on the projector, connect the AC power cord into an AC outlet again. Keep pressing the **SELECT** button until the POWER indicator lights continuously.

This is complete the resetting of the security function. The PIN code lock and Logo PIN code lock are reset as the initial PIN code at the factory and the Key lock function is disabled.

Please refer to the owner's manual for further information of the security functions.

Mechanical Disassembly

Mechanical disassembly should be made following procedures in numerical order.
Following steps show the basic procedures, therefore unnecessary step may be ignored.
Caution:
The parts and screws should be placed exactly the same position as the original otherwise it may cause loss of performance and product safety.
The wiring method of the leads and ferrite cores should be returned exactly the same state as the original, otherwise it may cause lose of performance and product safety.

Screws Expression (Type Diameter x Length) mm	
T type	M Type

1-1 Cabinet top ass'y removal-1.

1. Remove 1 cover-A and 2 covers-B.

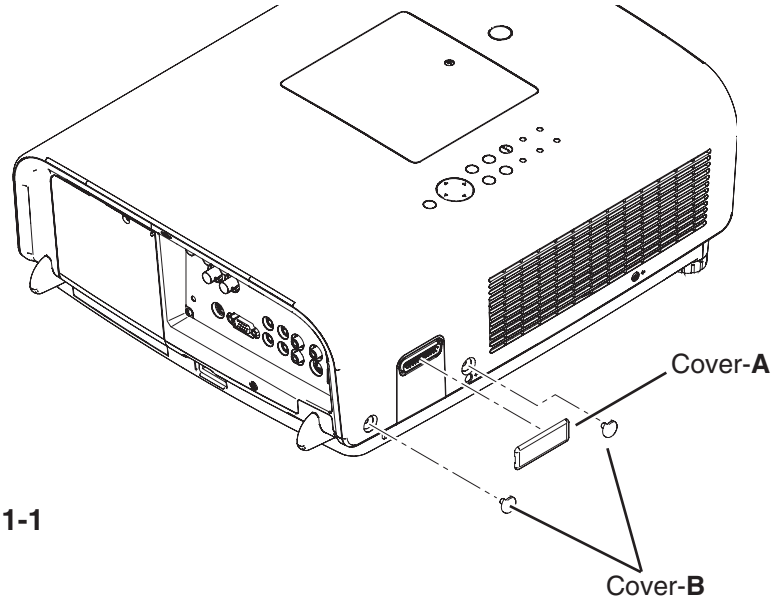


Fig. 1-1

1-2 Cabinet top ass'y removal-2.

1. Loosen 1 screw-A(M3X11) and open the Lamp cover.
2.Remove 1 screw-B(M3X8).

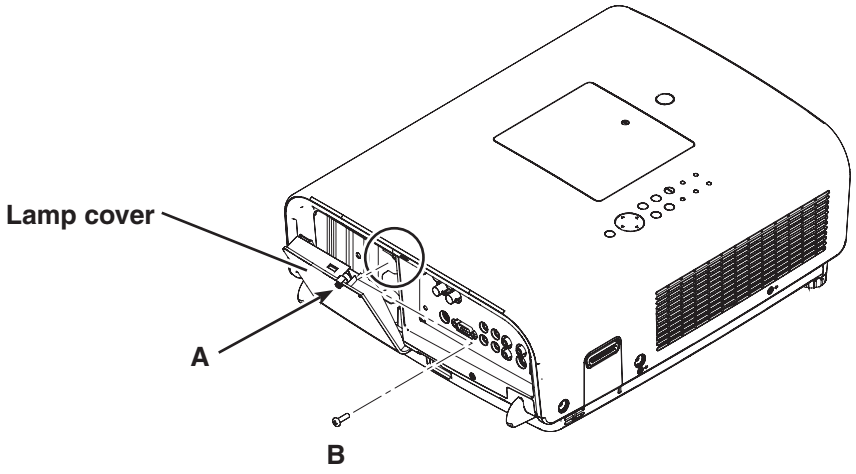


Fig. 1-2

1-3 Cabinet top ass'y removal-3.

1. Remove 6 screws-A(M3X8) and remove the Cabinet top ass'y.

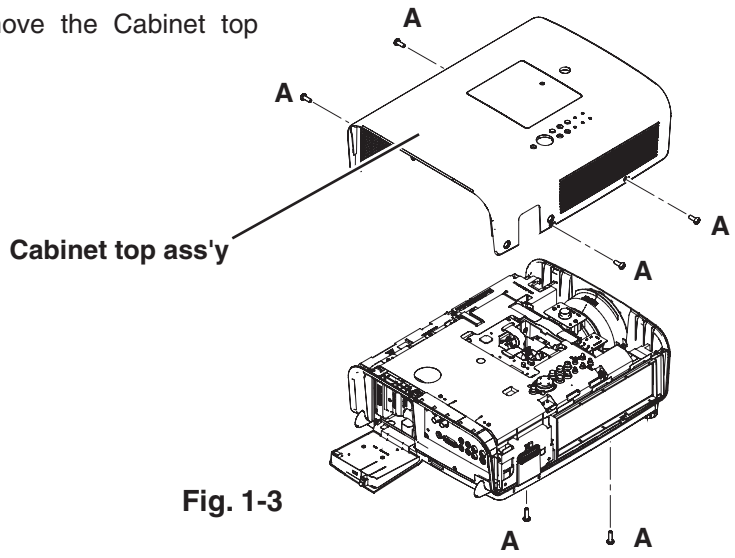


Fig. 1-3

1-4 Cabinet top ass'y removal-4.

1. Loosen screw-A(M3X11) and open the Prism cover panel.
   (Press 2 places (unhook) and remove the Prism cover panel upward.)
2. Remove 3 screws-B(T3X8) and remove the shield plate.

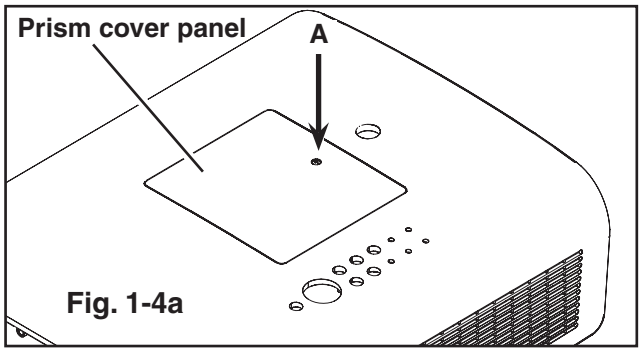


Fig. 1-4a

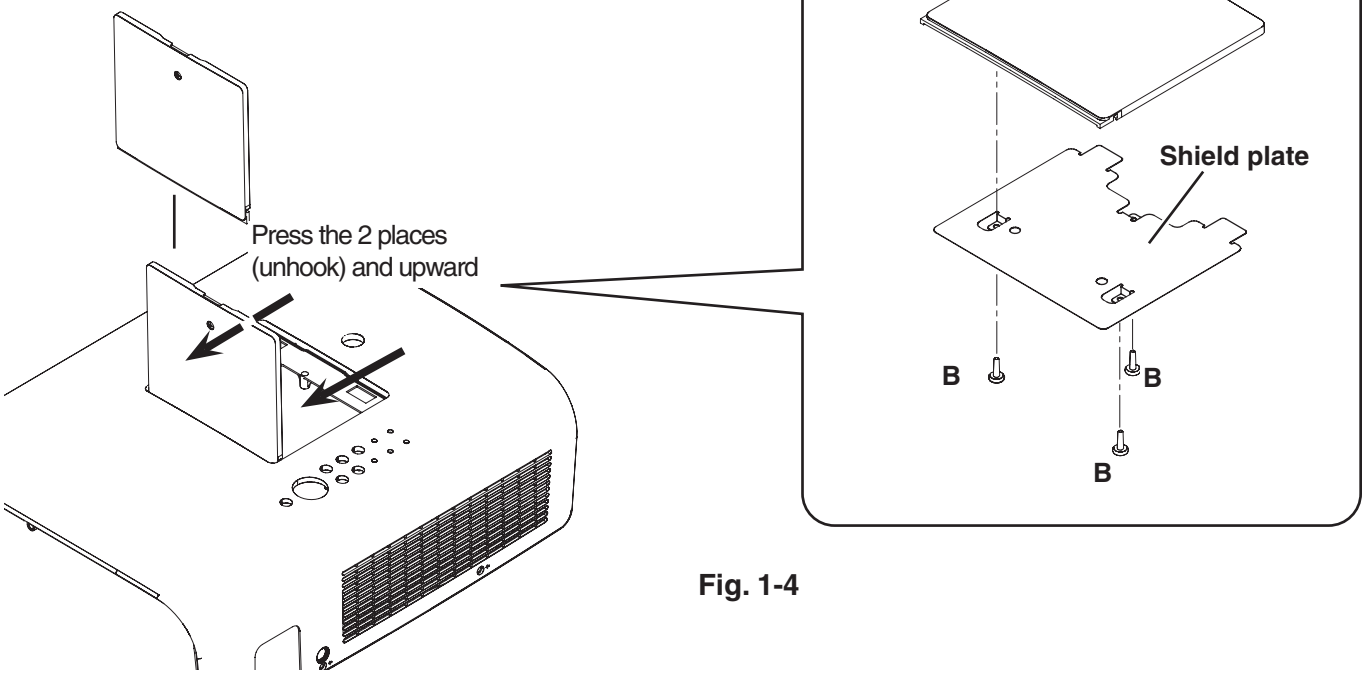


Fig. 1-4

2 AV Panel and Side Panel removal.

1. Remove 5 screws-A(M3X8) and remove the AV Panel.
2. Remove 1 screw-B(M3X6) and remove the Side Panel.

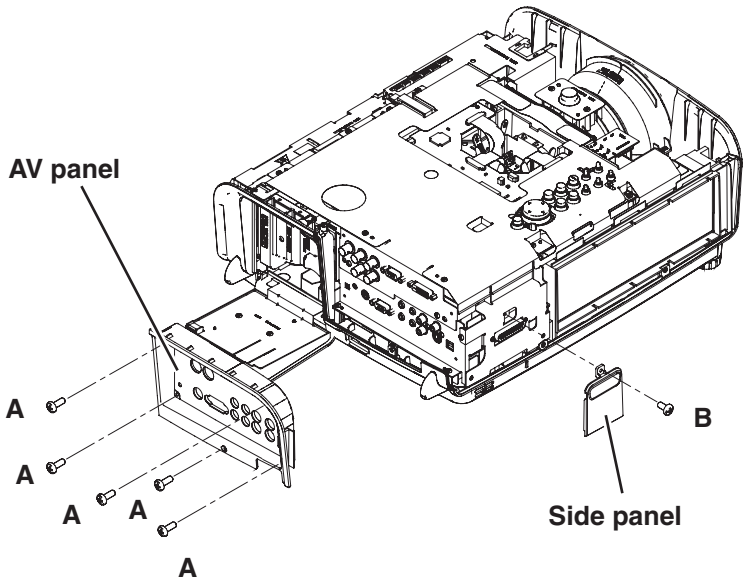


Fig. 2

3 Shield plate top-A removal.

1. Remove 11 screws-A(M3X6) and remove the Shield plate top-A.

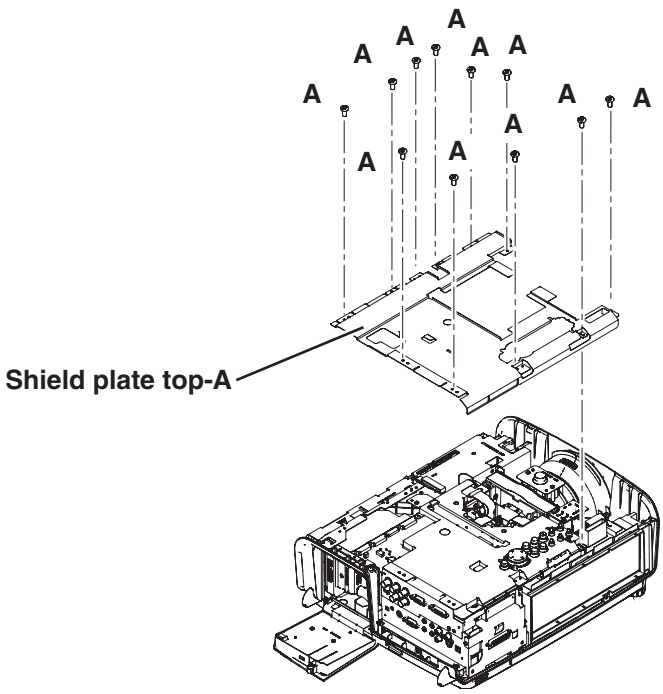


Fig. 3

4-1 Main board ass'y removal-1.

1. Remove 3 screws-A(M3X6) and remove 2 screws-B(M3X6).
2.Remove the Shield plate top-B, Main board ass'y and remove the Shield plate bottom.

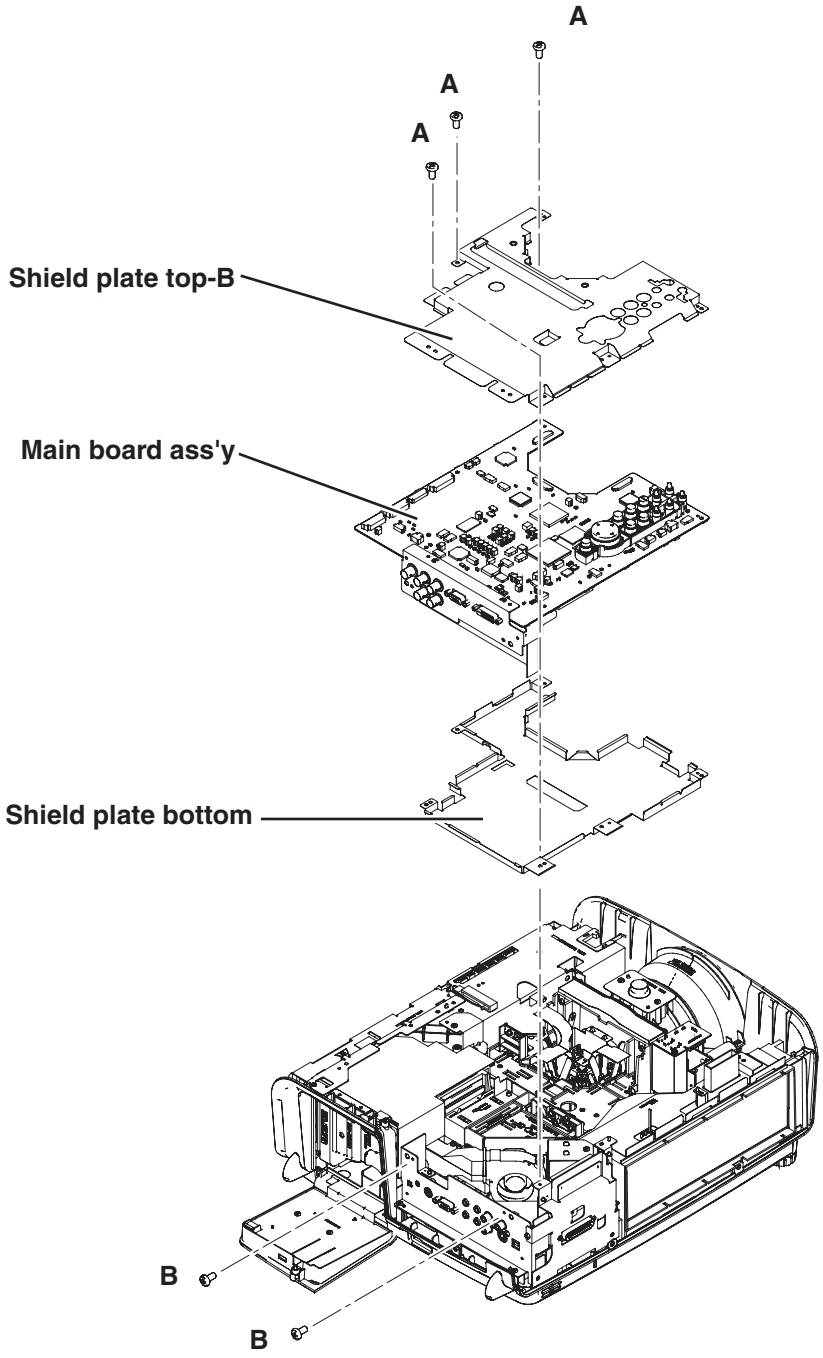


Fig. 4-1

4-2 Main board ass'y removal-2.

1. Unhook and remove the Button upward.
2. Remove the DEC inlay.
3. Remove the Heat sink sheet-A.

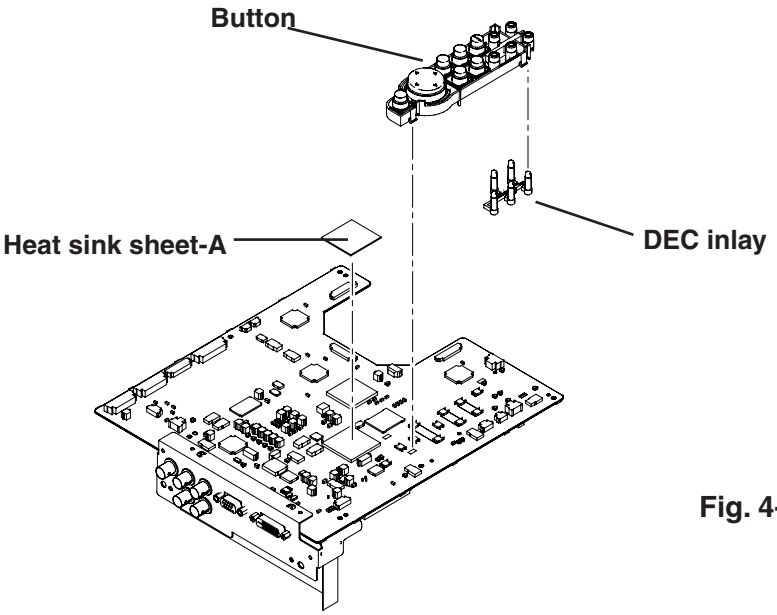


Fig. 4-2

4-3 Main board ass'y removal-3.

1. Remove 1 screw-A(M3X6).
2. Remove 2 nuts-B, 2 nuts-C, 1 screw-D and remove the Main PWB Holder.

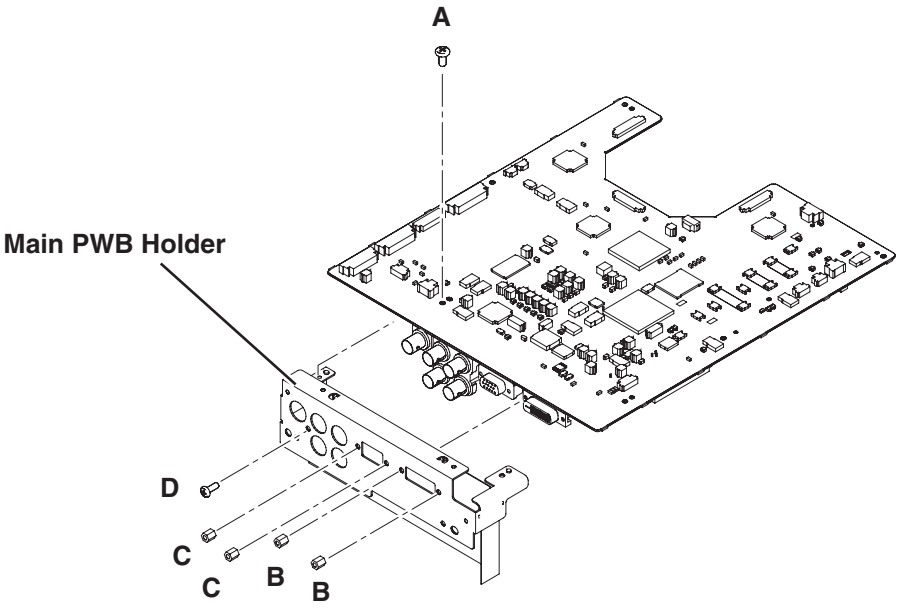
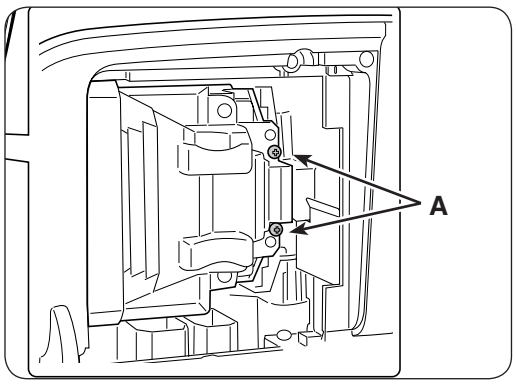


Fig. 4-3

5 Lamp ass'y removal.

1. Loosen 2 screws-A(M3X13) and remove the Lamp ass'y.
2. Remove the Spacer sheet.



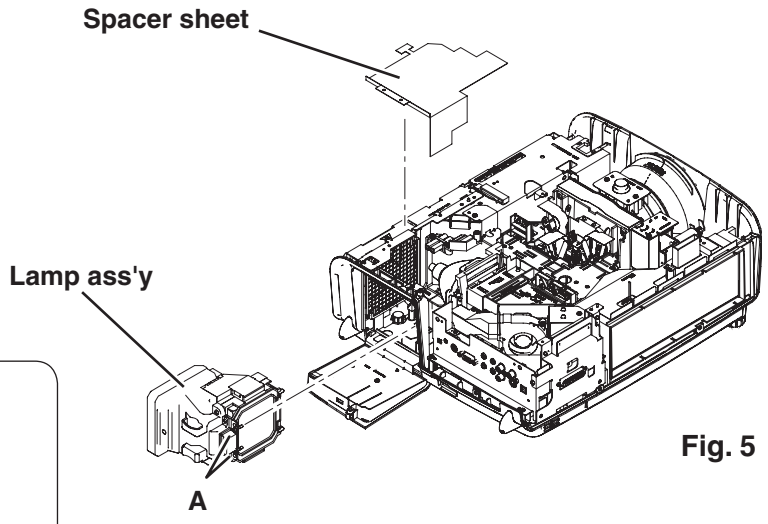


Fig. 5

6-1 Lens cover ass'y removal-1.

1. Remove 4 screws-A(T3X8) and remove the Lens cover ass'y.

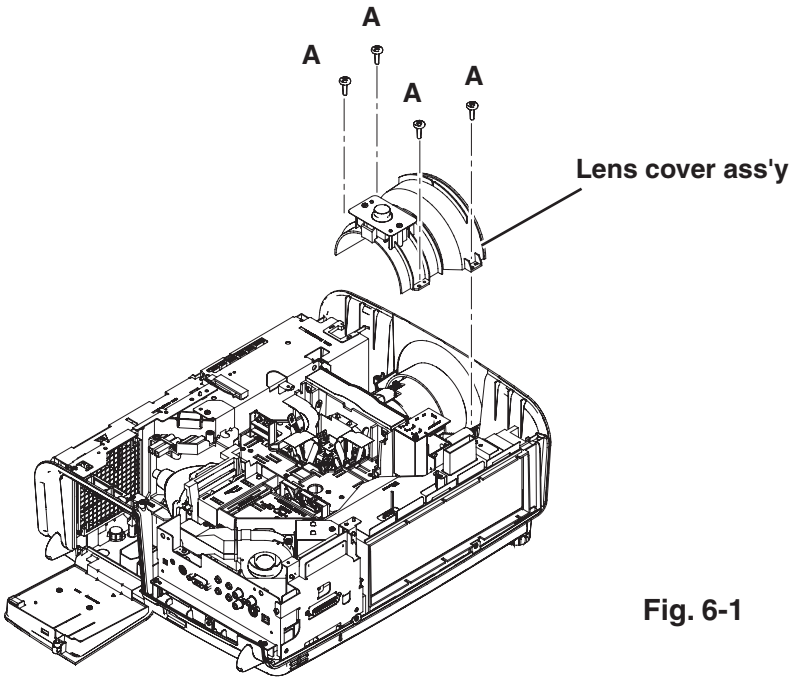


Fig. 6-1

6-2 Lens cover ass'y removal-2.

1. Remove 2 screws-A(T3X8) and remove the Stopper button.
2. Remove the Button, remove the Spring and remove the Holder.

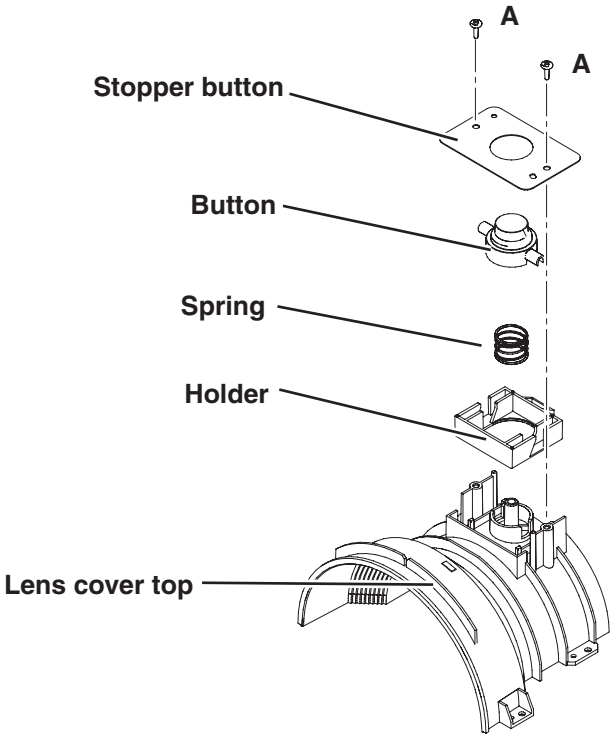


Fig. 6-2

7 Optical engine removal.

1. Remove 5 screws-A(T3X10) and remove the Optical engine.

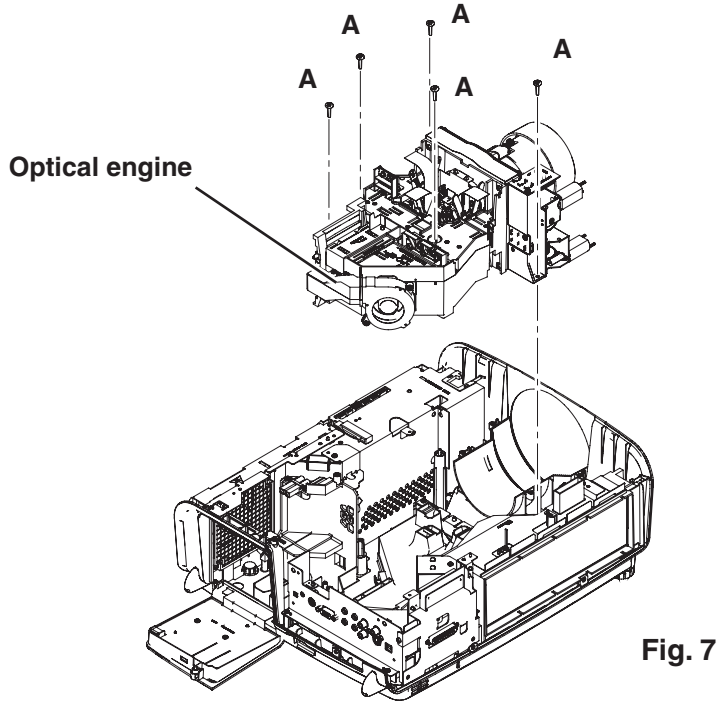


Fig. 7

8 Lens cover bottom removal.

1. Remove 2 screws-A(T3X8) and remove the Optical engine.

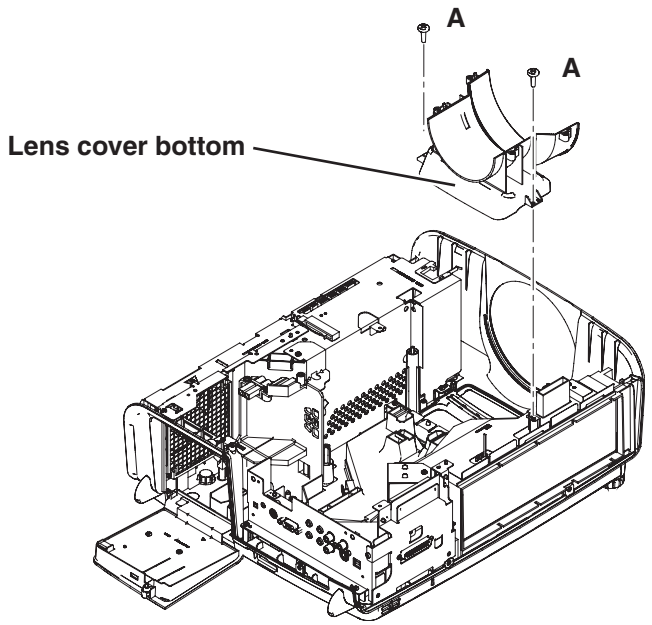


Fig. 8

9-1 AV board & Network joint board ass'y removal-1.

1. Remove 3 screws-A(T3X8) and remove the AV board & Netwark joint board ass'y.

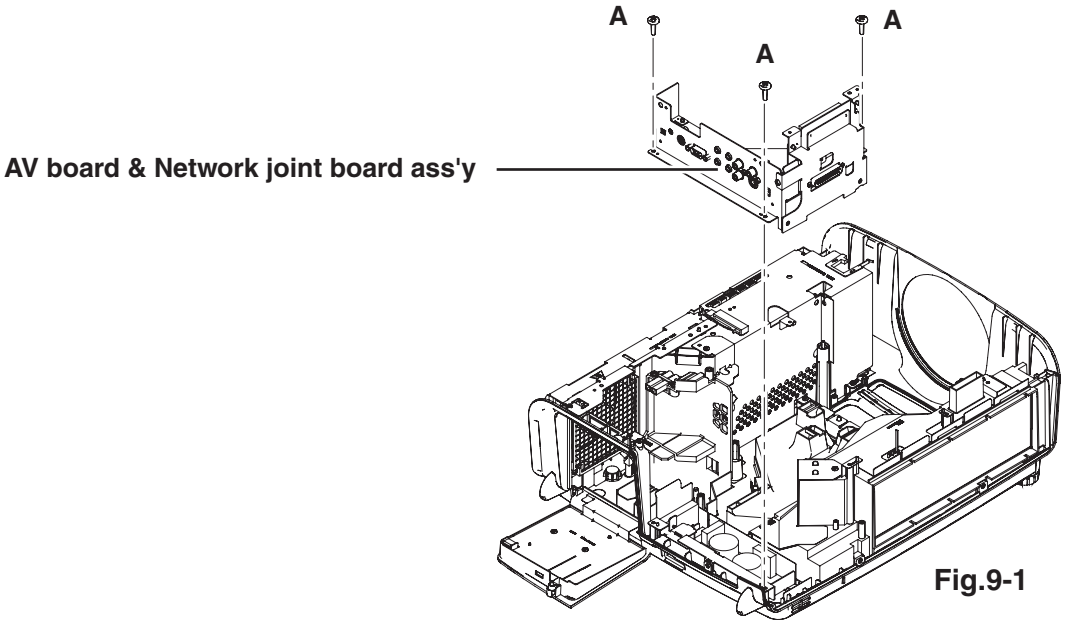


Fig.9-1

9-2 AV board & Network joint board ass'y removal-2.

1. Remove 3 screws-A(M3X6), 4 screws-B(T3x8), 2 screws-C(M2.6X10) and 2 screws-D(T3x8) and 2 nuts-E.
2. Remove the AV board ass'y and remove the Network joint board ass'y.

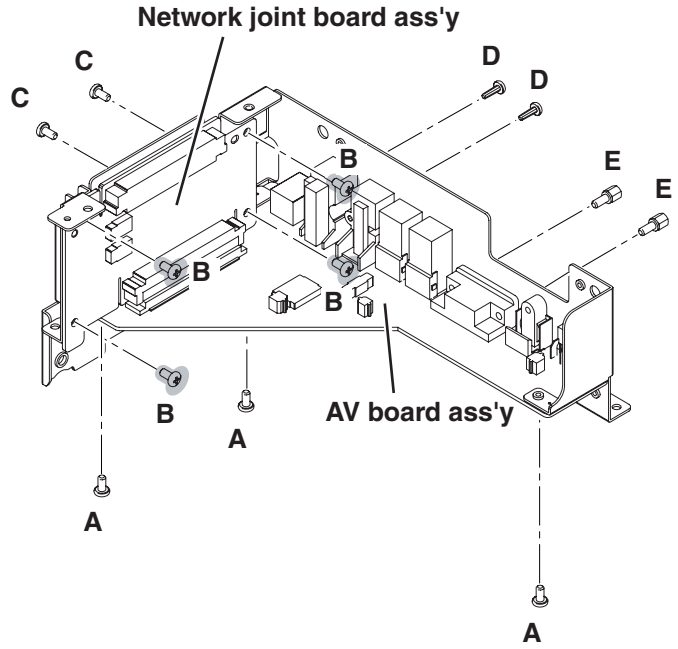


Fig.9-2

10-1 Thermostat(SW901) ass'y removal-1.

1. Remove 1 screw-A(M3X6) and remove the Thermostat(SW901) ass'y.

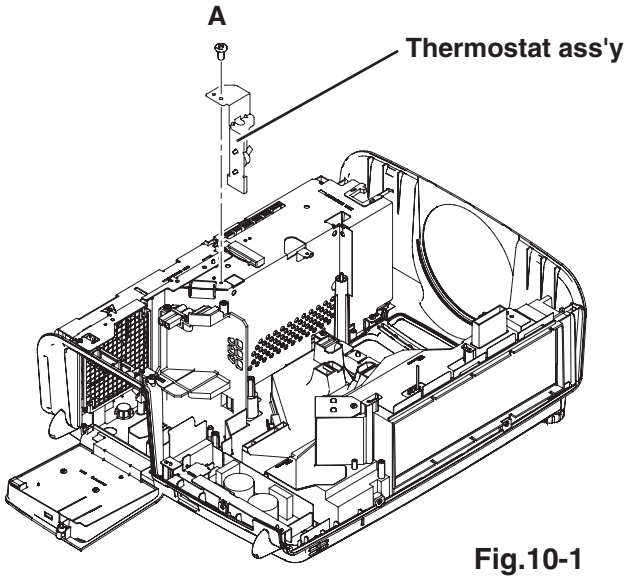


Fig.10-1

10-2 Thermostat(SW901) ass'y removal-2.

1. Remove 2 screws-A(M3X4) and remove the Thermal switch(SW901).

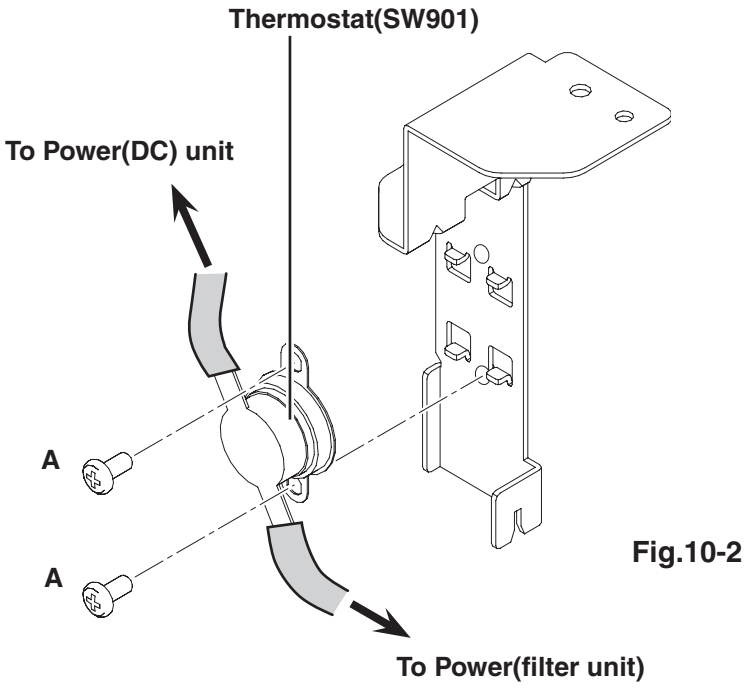


Fig.10-2

11-1 Exhaust Fan(FN901, FN902) ass'y removal-1.

1. Remove 2 screws-A(T3X8) and remove the Exhaust Fan(FN901, FN902) ass'y.

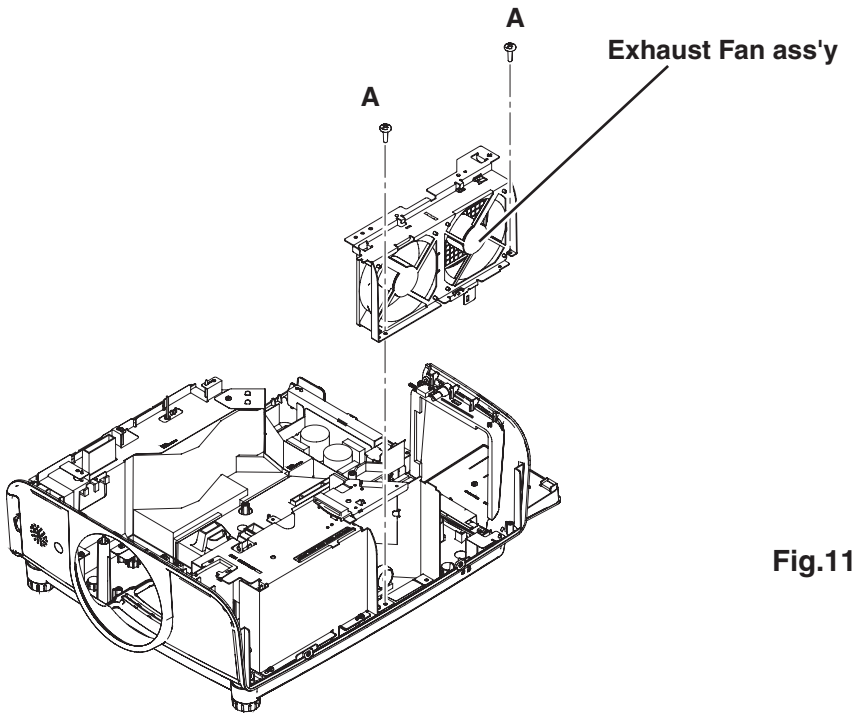


Fig.11-1

11-2 Exhaust Fan(FN901, FN902) ass'y removal-2.

1. Remove 4 screws-A(M3X28), remove the Fan guard cover and the Fan(FN901).
2. Remove 4 screws-B(M3X28) and remove the Fan(FN902).

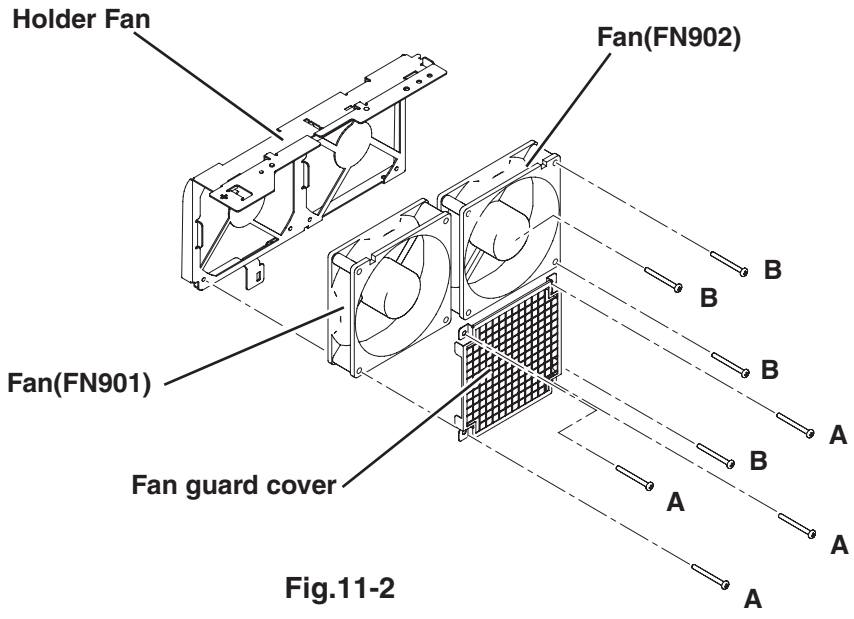


Fig.11-2

12 Exhaust Fan duct removal.

1. Remove 2 screws-A(T3X6) and remove the Lamp ballast connector.
2. Remove 2 screws-B(T3X10) and remove Exhaust Fan duct.

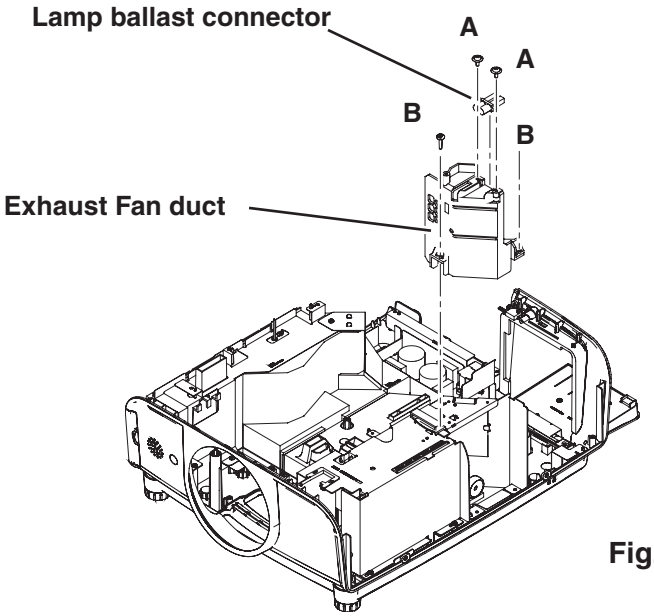


Fig.12

13-1 Power board(Ballast) ass'y removal-1.

1. Remove 1 screw-A(M3X6), 4 screws-B(T3X8) and remove the Power board(Ballast) ass'y.

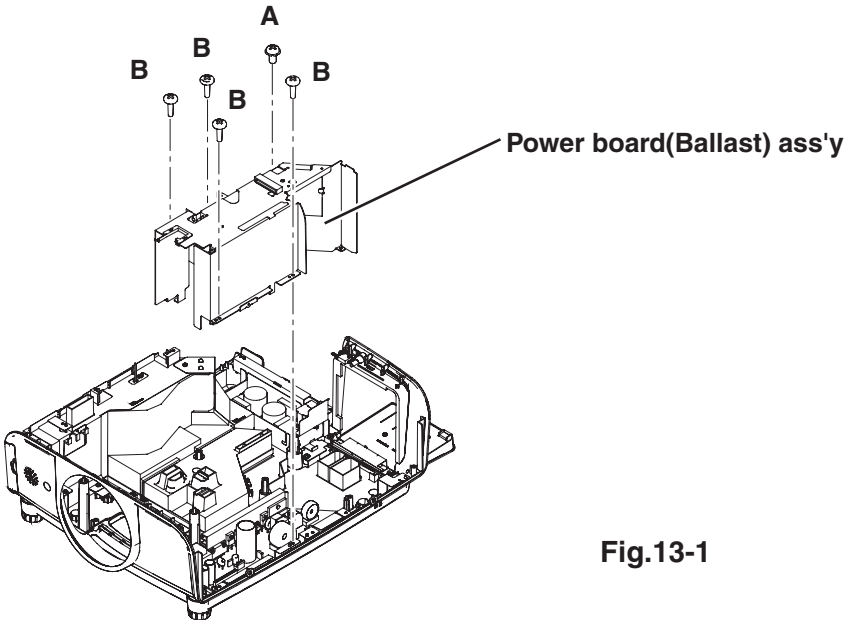


Fig.13-1

13-2 Power board(Ballast) ass'y removal-2.

1. Remove the 2 rivets A and B, and take off the trigger box. (Press the edge of the rivet-A and remove the rivets)
2. Remove 2 Fixer clamp and remove the Power board(Ballast).
3. Remove the Spacer sheet.

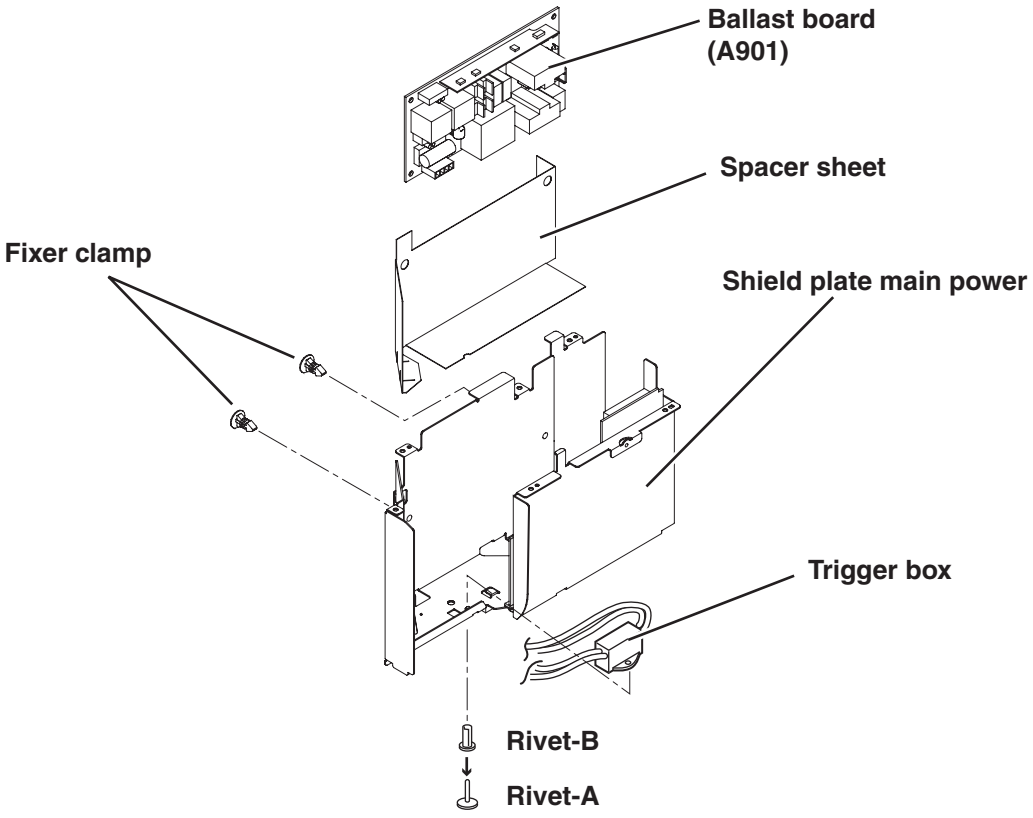


Fig.13-2

14 Power board ass'y removal.

1. Remove 1 screw-A(M3X8), 3 screws-B(T3X8) and remove the Power board ass'y.
2. Remove the Spacer sheet.

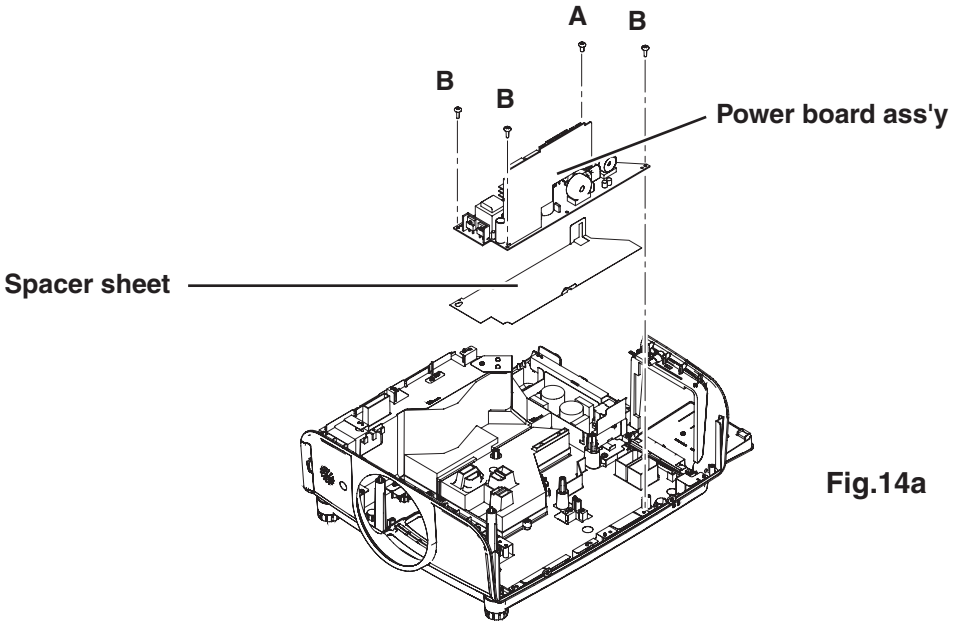


Fig.14a

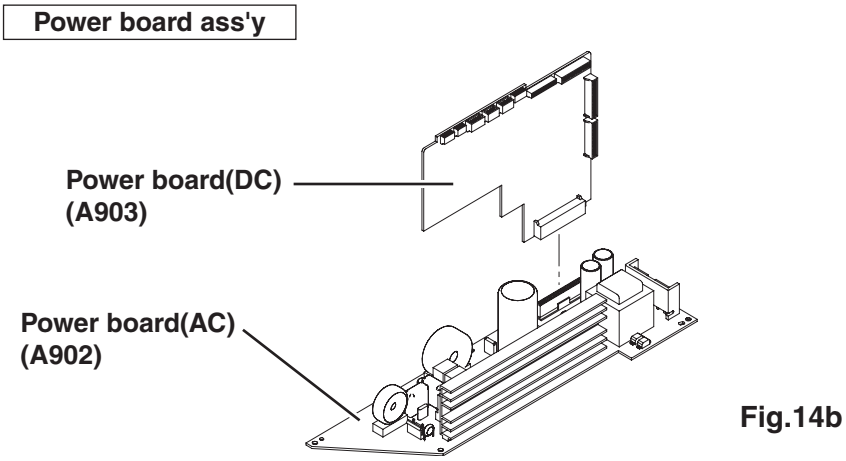


Fig.14b

15-1 Power board(Filter) ass'y removal-1.

1. Remove 1 screw-A(M3X6), 2 screws-B(T3X8) and remove the Power board(Filter) ass'y.

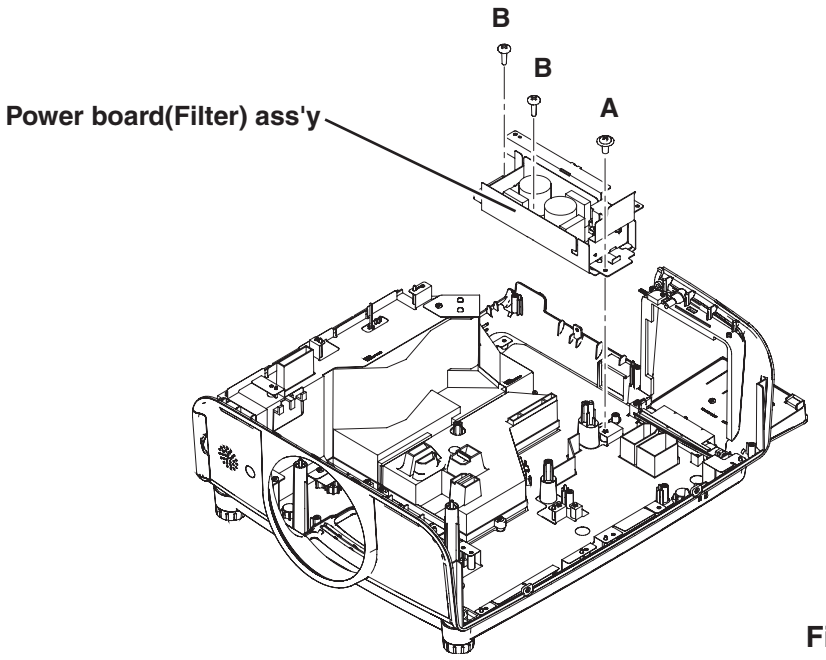


Fig.15-1

15-2 Power board(Filter) ass'y removal-2.

1. Remove 1 screw-A(M2.5X5) and remove the Fuse cover.
2. Remove the Holder PWB, remove the Spacer sheet and remove the Power board(Filter).

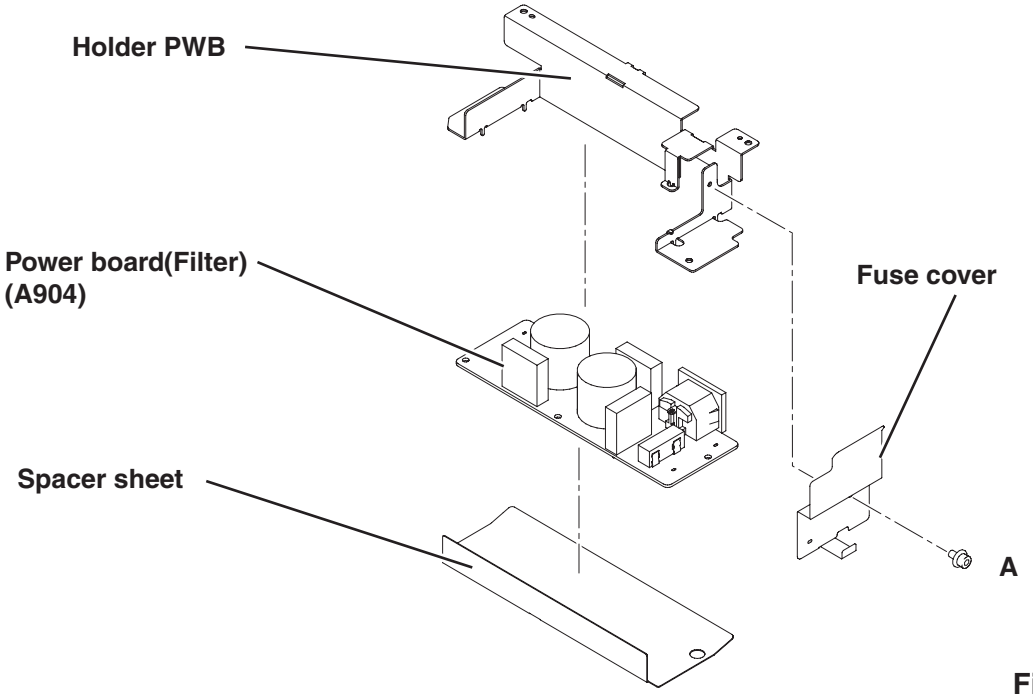


Fig.15-2

16-1 Intake Fan(FN904,FN905)removal-1.

1. Pull out air filter base ass'y.
2. Remove 5 screws-A(T3X8) and remove the intake duct ass'y.

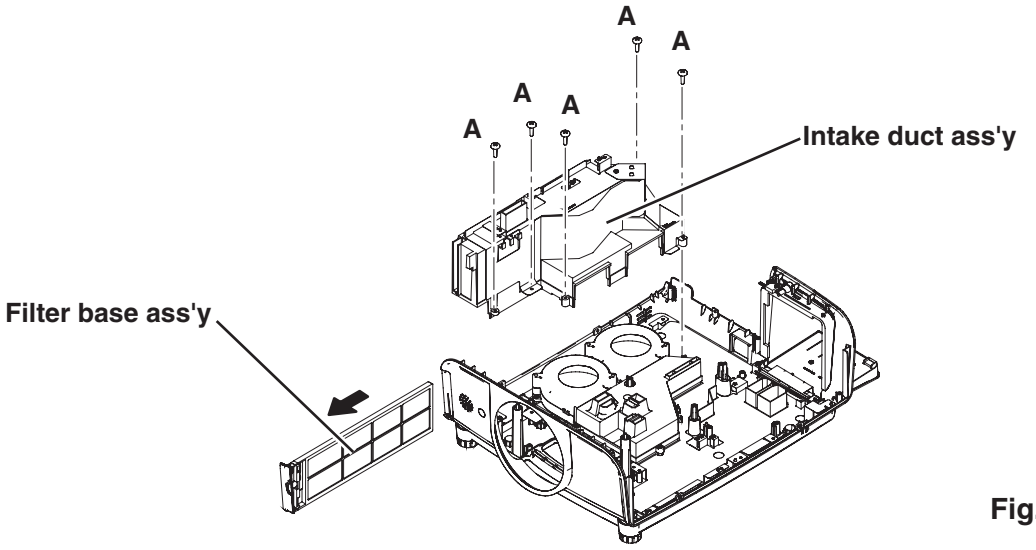


Fig.16-1

16-2 Intake Fan(FN904,FN905)removal-2.

1. Remove 1 screw-A(M3X6), the Shield plate-A and remove the Shield plate-B.

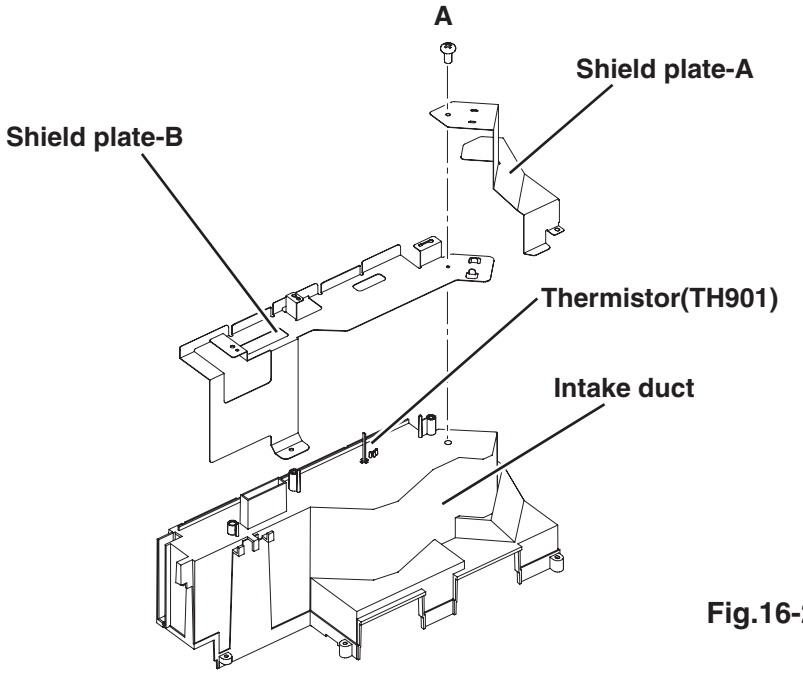


Fig.16-2

16-3 Intake Fan(FN904,FN905)removal-3.

1. Remove 4 screws-A(T3X8) and remove the Panel duct.
2. Remove 2 screws-B(T3X10) and remove the Fan(FN904).
2. Remove 2 screws-C(T3X10) and remove the Fan(FN905).

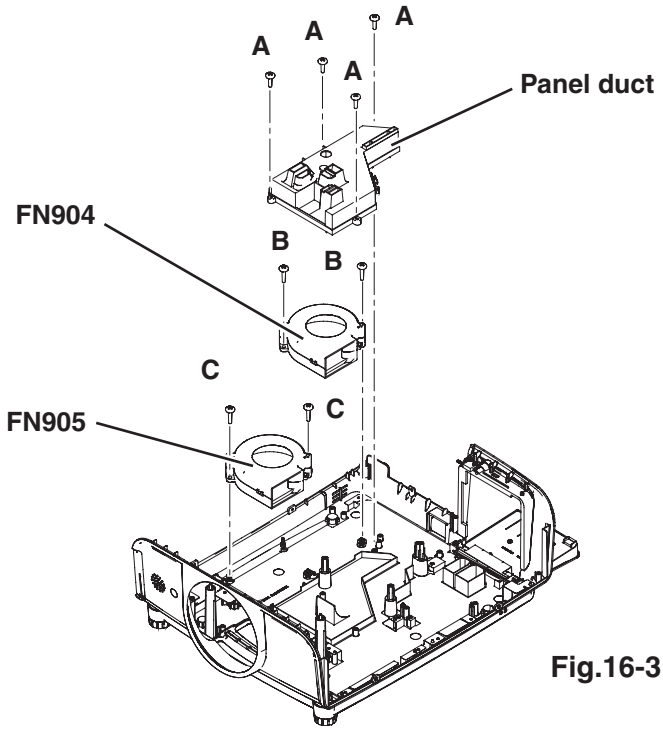


Fig.16-3

17 Shield plate BTM removal.

1. Remove 2 screws-A(T3X8) and remove the Shield plate BTM.
2. Remove the Lamp cover ass'y.

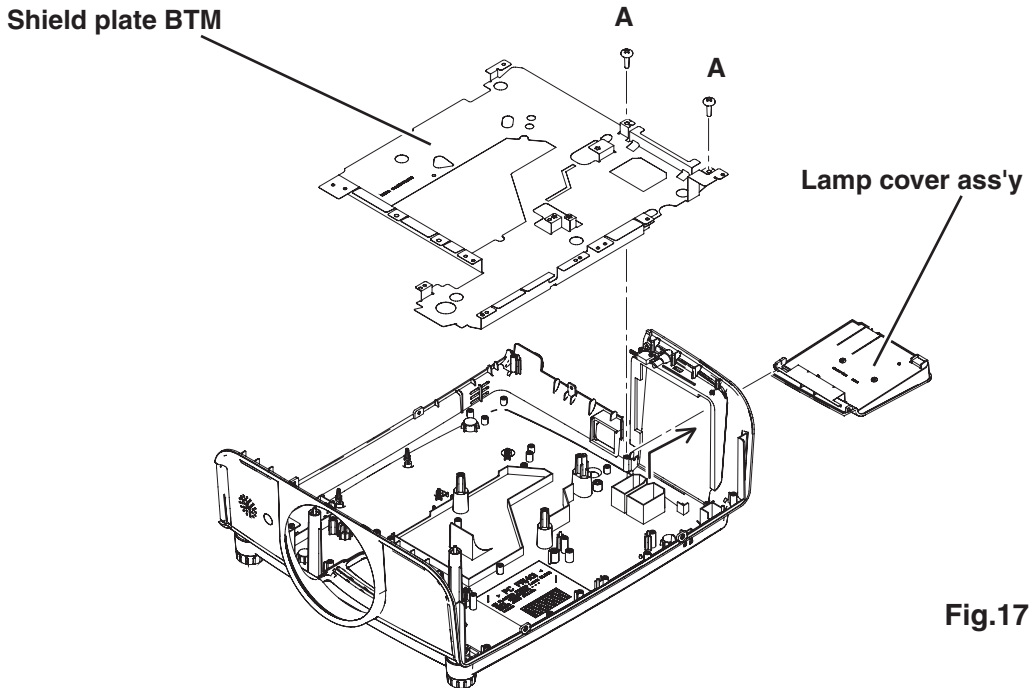


Fig.17

18 Lamp cover ass'y disassemblies.

1. Remove 2 screws-A(T3X8) and remove the Shield plate.

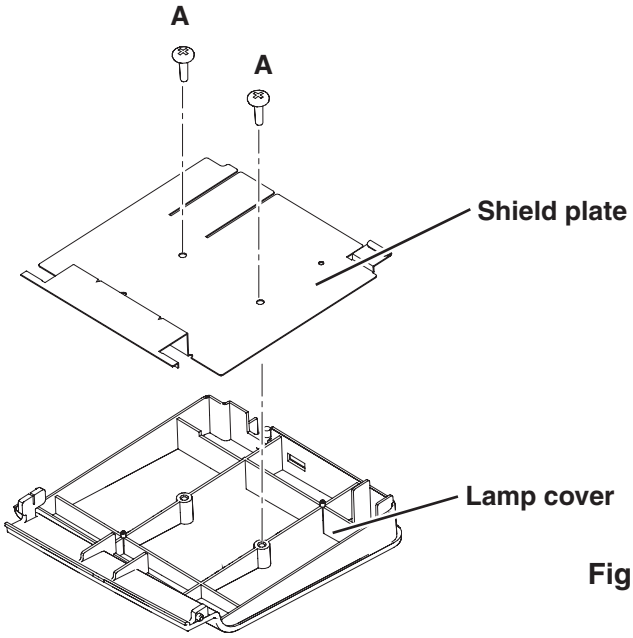


Fig.18

19 Lamp cover switch and R/C Front board removal.

1. Remove 1 screw-A(T3X8) and remove the R/C Front board(A2850).
2. Remove 1 screw-B(T3X12) and remove the Lamp cover switch(SW902).
3. Remove the Speaker(SP901) upward.

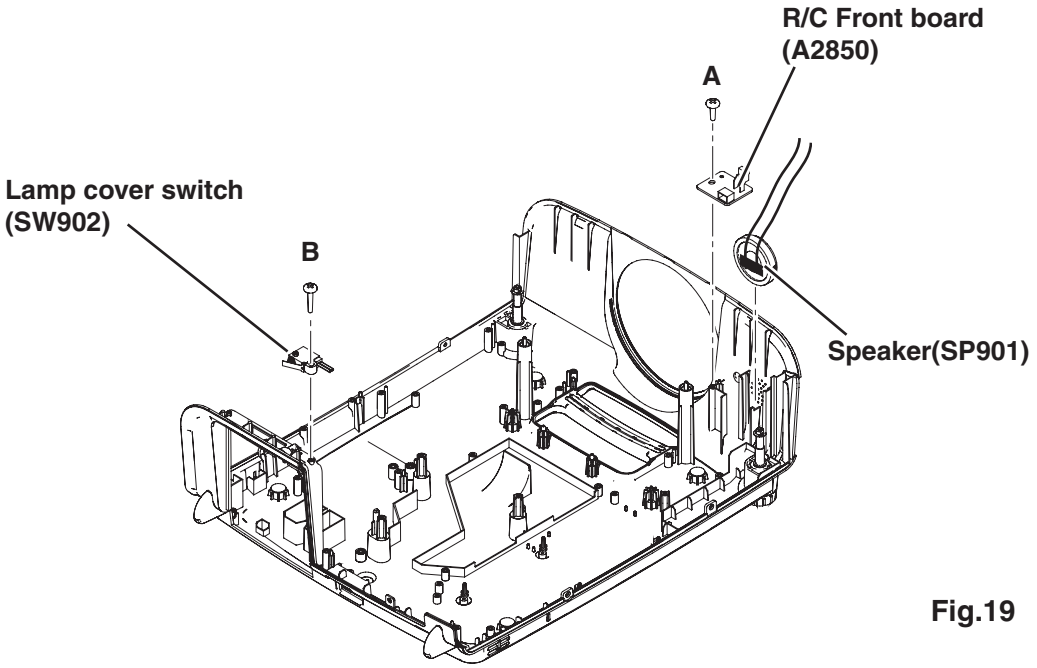
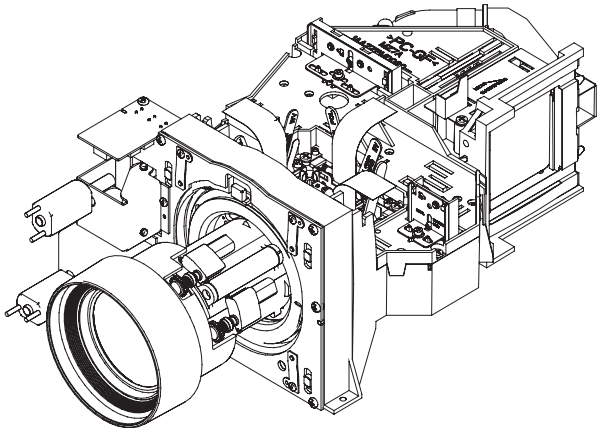


Fig.19



20 Projection lens removal.

1. Press and hold the Fixing lever-A and turn the Projection lens counterclockwise (about 1/6 turn) and then take it off.

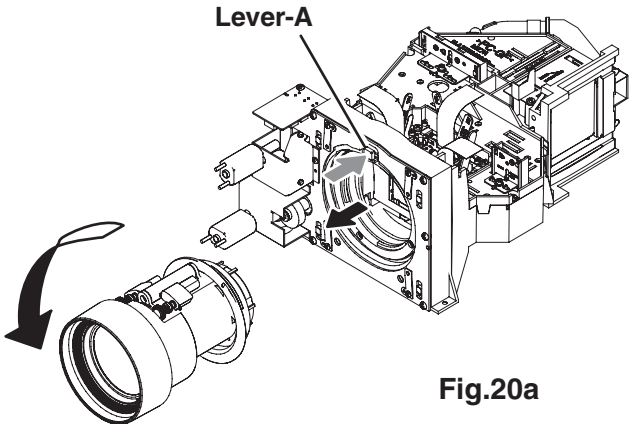


Fig.20a

Note in the Mounting Projection Lens

Insert the Projection lens into the guide at a position where the both markers on the projection lens and the mounting base come together, and turn it clockwise until the Fixing Lever is set to the fixing position.

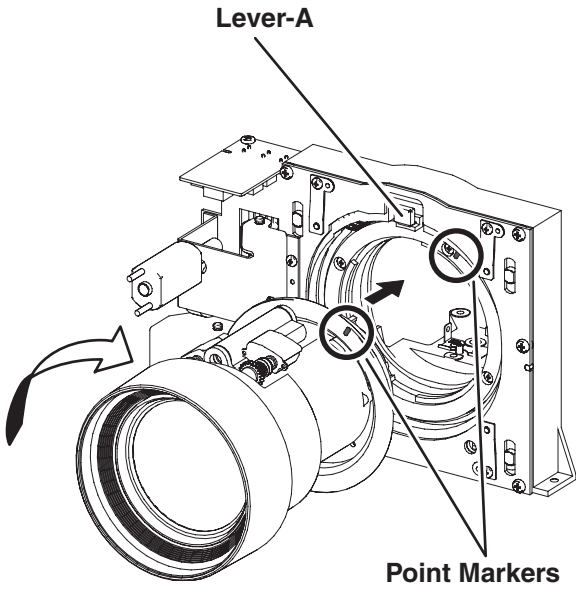


Fig.20b

21-1 LCD panel/Prism ass'y removal

1. Loosen 3 screws-A(M2.5X10.2) and disconnect 1 socket-C of grounding wire, and then remove the LCD panel/Prism ass'y.

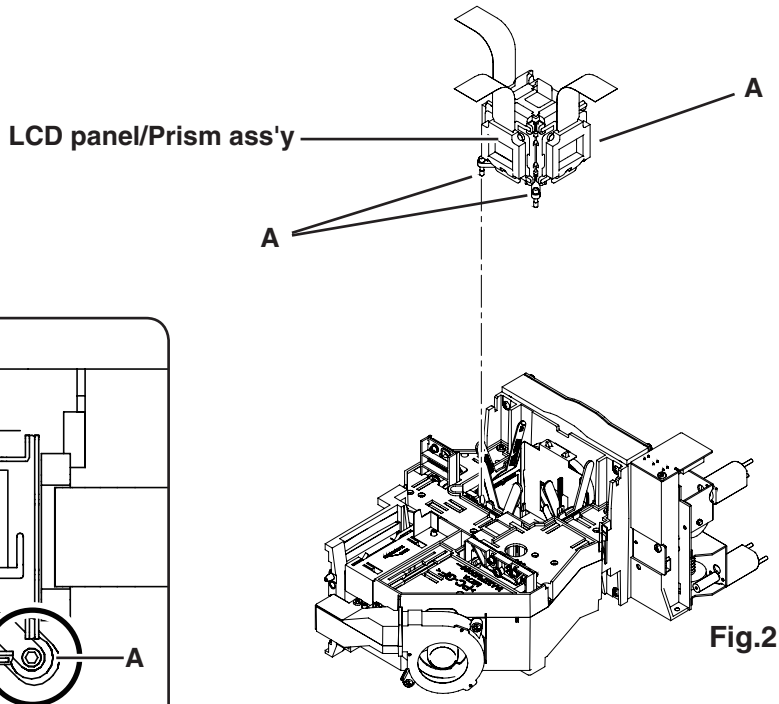


Fig.21a

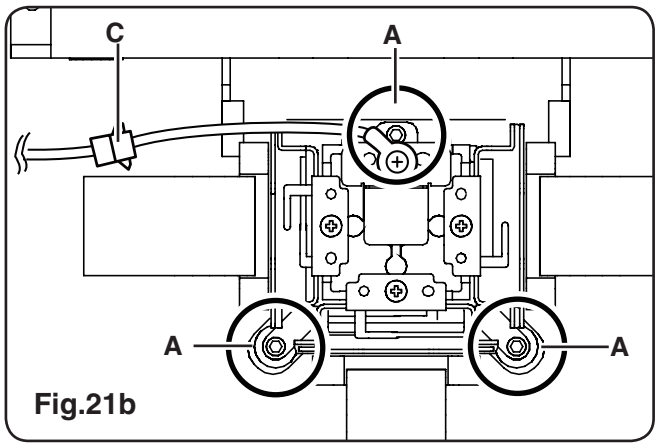


Fig.21b

Note; Do not replace the LCD panel separately otherwise it cannot obtain proper picture. Do not touch the prism, the LCD panel and electrode of flexible cable.

IMPORTANT NOTICE on LCD Panel/Prism Ass'y Replacement

LCD panels used for this model cannot be replaced separately. Do not disassemble the LCD Panel/Prism Ass'y. These LCD panels are installed with precision at the factory. When replacing the LCD panel, should be replaced whole of the LCD panels and prism ass'y at once.

After replacing LCD Panel/Prism ass'y, please check the following points.

- Check that there is no color shading at the top, bottom, left or right of the screen. If there is, try to remove the shading following to the chapter "Optical Adjustment".
- Check the white balance. If it needs the adjustment, adjust the white balance following to the "White Balance Adjustment" and "Common Centre Adjustment" in the chapter "Electrical Adjustment".
- Check the white uniformity on the screen.
  If you find the color shading at the some part of the screen, it needs to take the color shading adjustment. This adjustment should be performed by a computer and it also requires a special software "Color Shading Correction". The software will be supplied separately and can be ordered as follows;

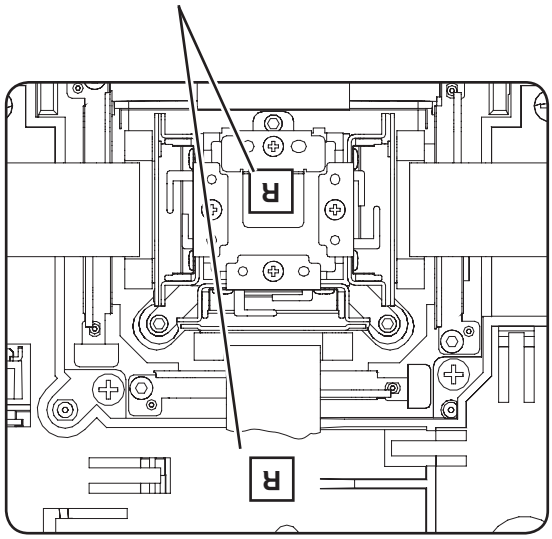
COLOR SHADING CORRECTION Ver. 4.00
Service Parts No. 645 075 9611

LCD Panel Type Check

There are 2 types combination of the LCD panel/prism assembly and the optical unit, named Type-R and Type-L. Since both have no compatibility, each type should be combined with the same type, and the specific parts should be used. If not, the poor optical characteristics may degrade the quality of a projected image.
Confirm the "R" label or "L" label on top of the LCD panel/ prism assembly and the optical unit.

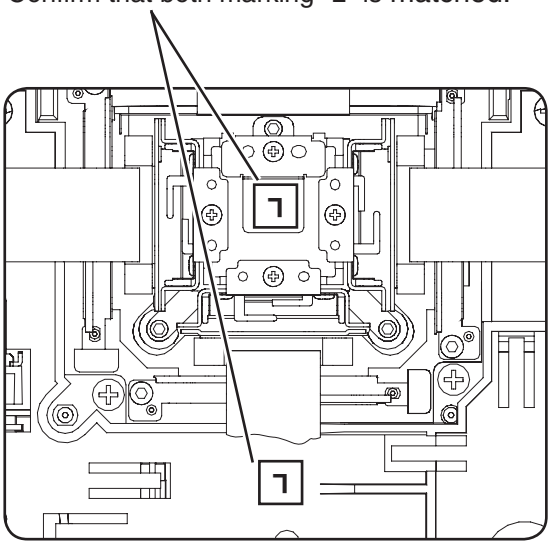
NOTE:
LCD panel/prism assembly should be used with the same type of the optical unit.

Confirm that both marking "R" is matched.



LCD Panel/Prism Ass'y Type-R

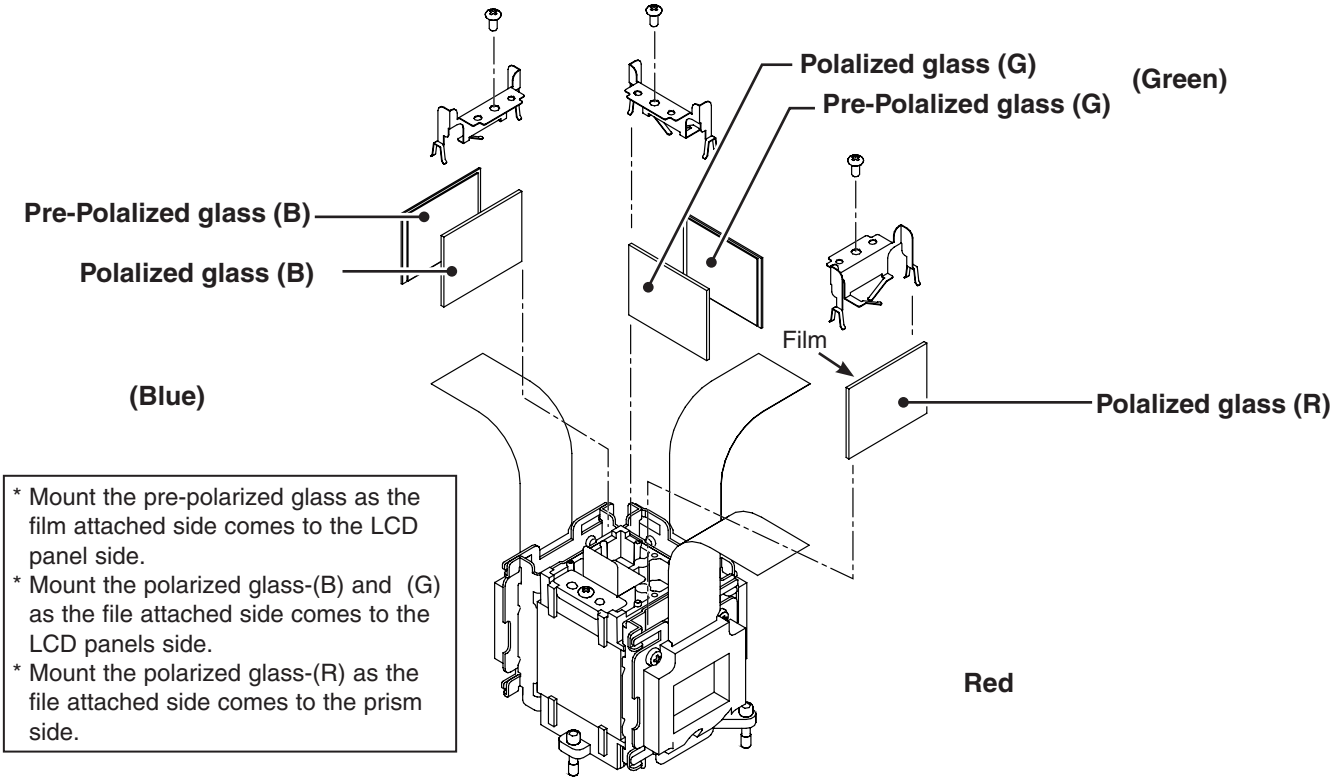
Confirm that both marking "L" is matched.



LCD Panel/Prism Ass'y Type-L

21-2 Polarized glass, Pre-Polarized glass removal

1. Remove each screw (M2X4) and holder.



* Mount the pre-polarized glass as the film attached side comes to the LCD panel side.
* Mount the polarized glass-(B) and (G) as the file attached side comes to the LCD panels side.
* Mount the polarized glass-(R) as the file attached side comes to the prism side.

22 Lens mount removal.

1. Remove 4 screws-A(M2.5X10) and remove the Lens mount.

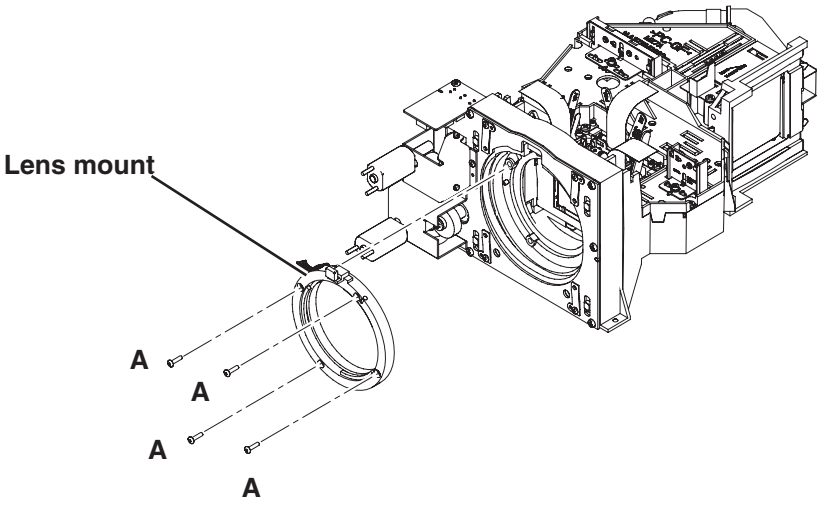


Fig.22

23 Lens shift ass'y removal.

1. Remove 4 screws-A(M3X6) and remove the Lens shift ass'y.

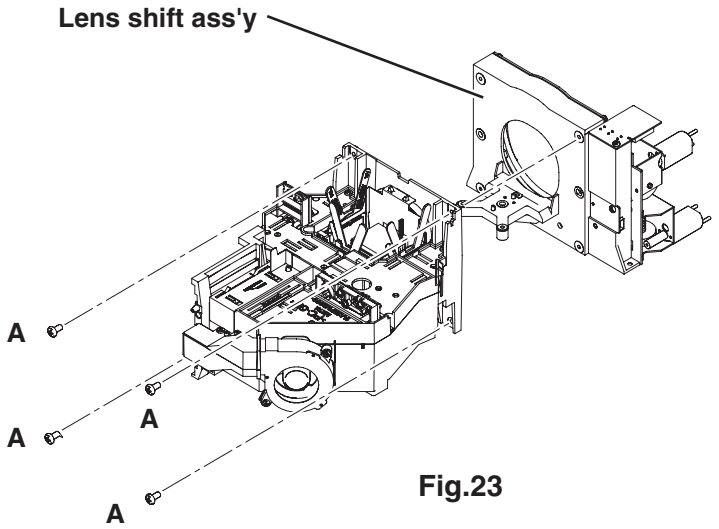


Fig.23

24 Condenser lens ass'y removal.

1. Remove 1 screw-A(M2.5X5) and remove the Condenser lens ass'y.
2. Remove 2 screws-B(M2.5X5) and remove the Lens holder ass'y.
3. Remove 1 screw-C(T3X6) and remove the Condenser lens.

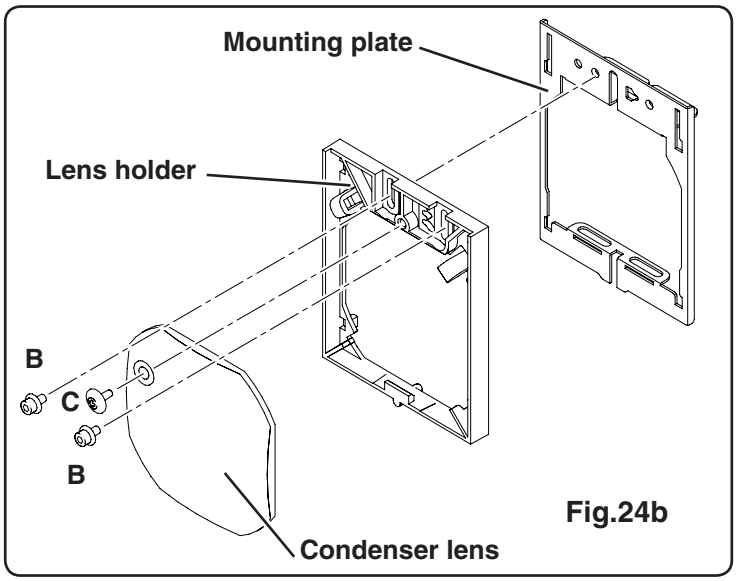


Fig.24b

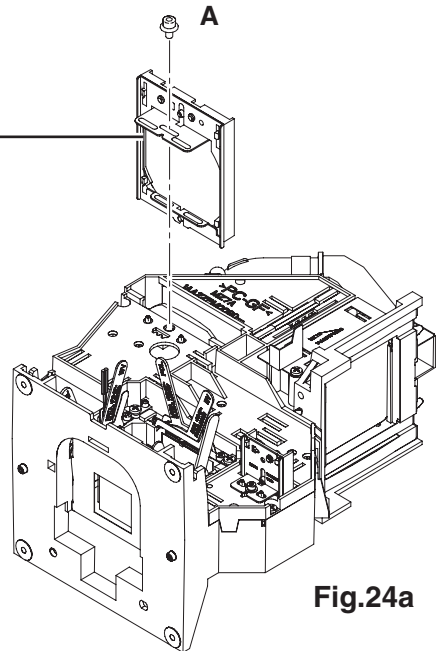


Fig.24a

Lens holder ass'y

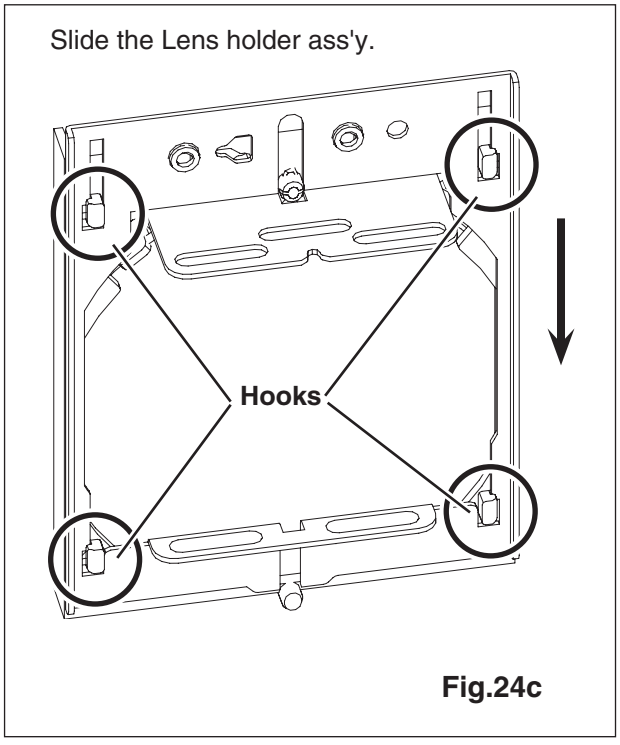


Fig.24c

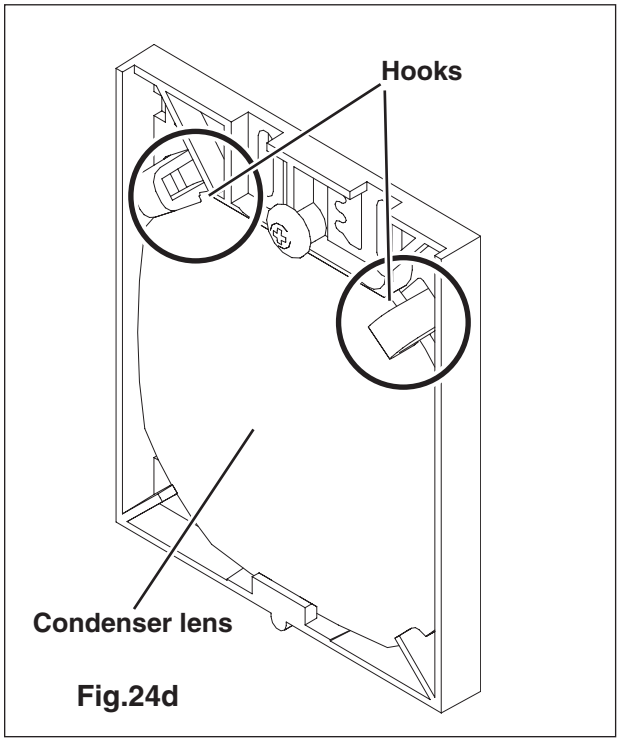


Fig.24d

25 Relay lens ass'y removal.

1. Remove 1 screw-A(M2.5X5) and remove the Relay lens ass'y.
2. Remove 1 screw-B(M2.5X5) and remove the Lens holder ass'y.
3. Remove 1 screw-C(T3X6) and remove the Relay lens.

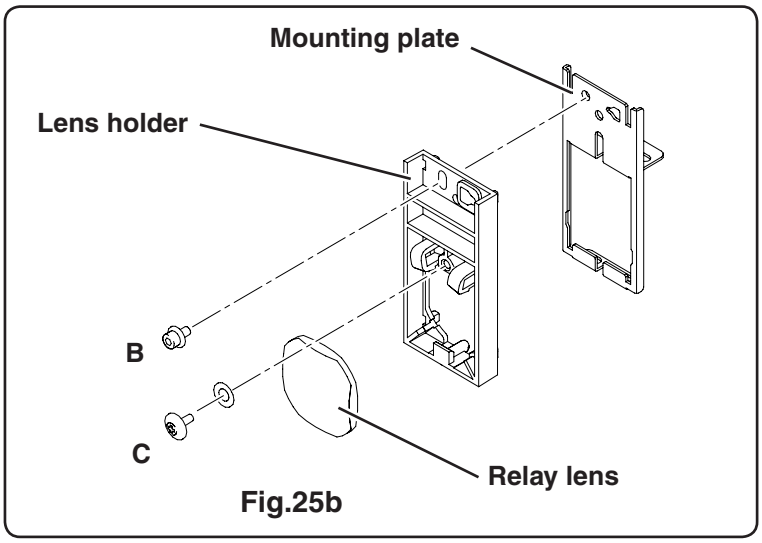


Fig.25b

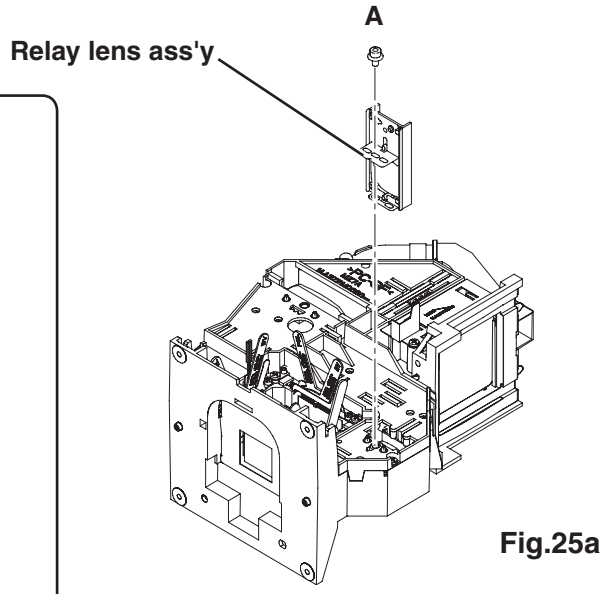


Fig.25a

Slide the Lens holder ass'y.

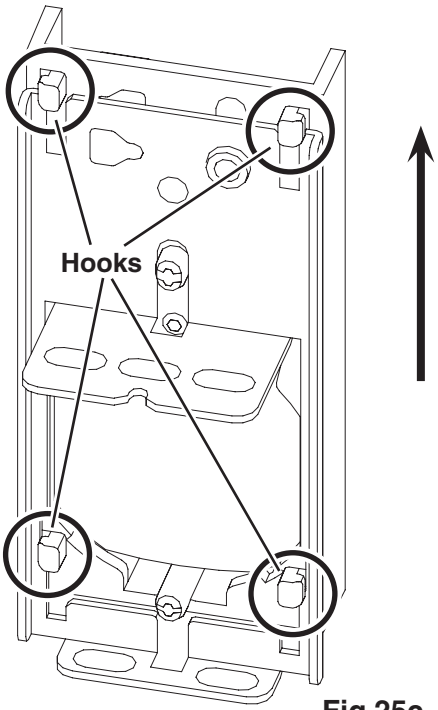


Fig.25c

Lens holder ass'y

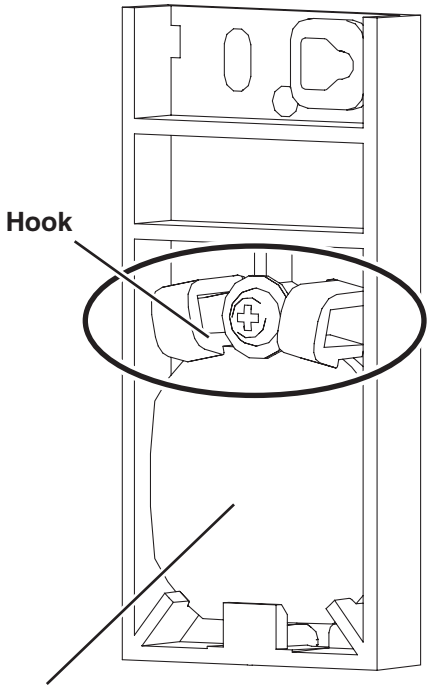


Fig.25d

26 Green Polarized glass ass'y and Optical filter ass'y removal.

1. Remove 1 screw-A(M2.5X6) and remove the stopper.
2. Remove the Polarized glass ass'y and remove the Optical filter ass'y.

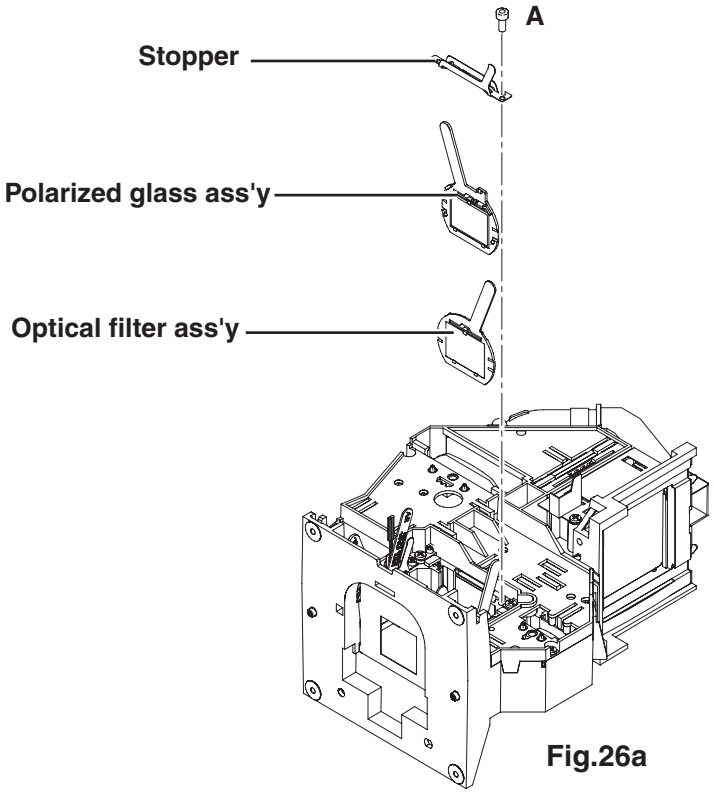
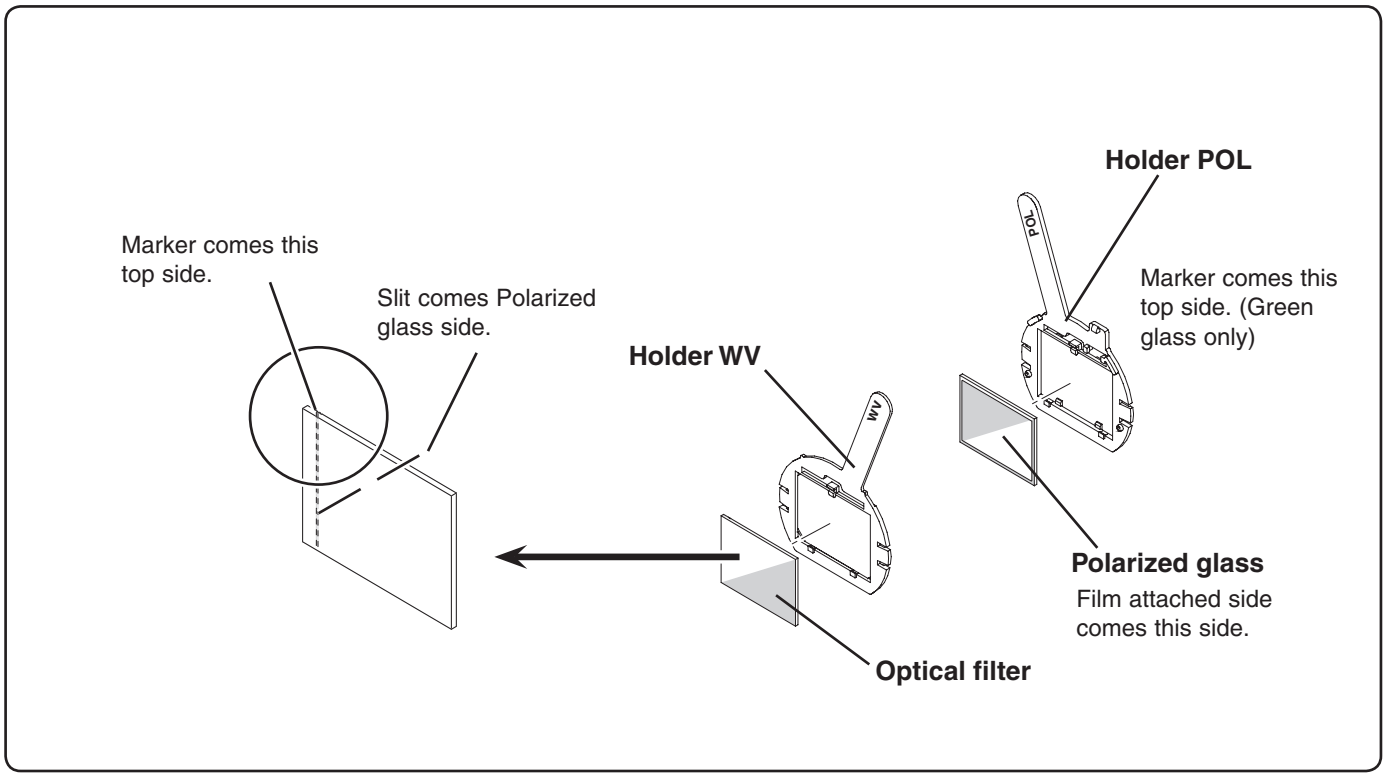


Fig.26a



* The optical filter must be used with the specified parts according to the mounted prism assembly type, Type-L or Type-R. See the parts list for further details.

27 Blue Polarized glass ass'y and Optical filter ass'y removal.

1. Remove 1 screw-A(M2.5X6) and remove the stopper.
2. Remove the Polarized glass ass'y and remove the Optical filter ass'y ass'y.

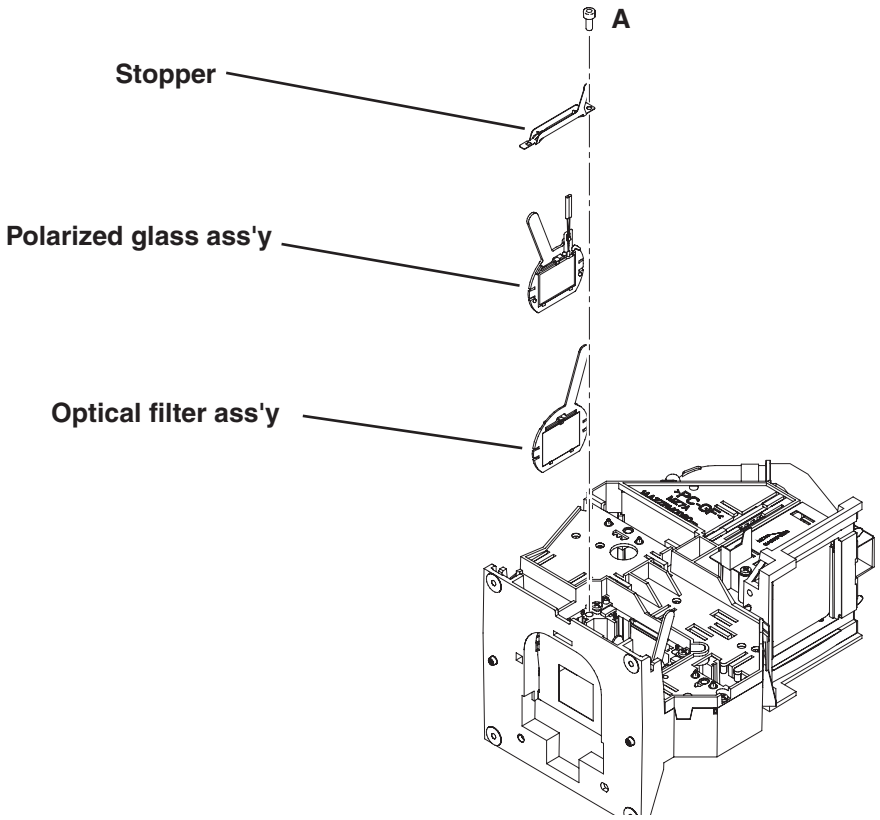


Fig.27a

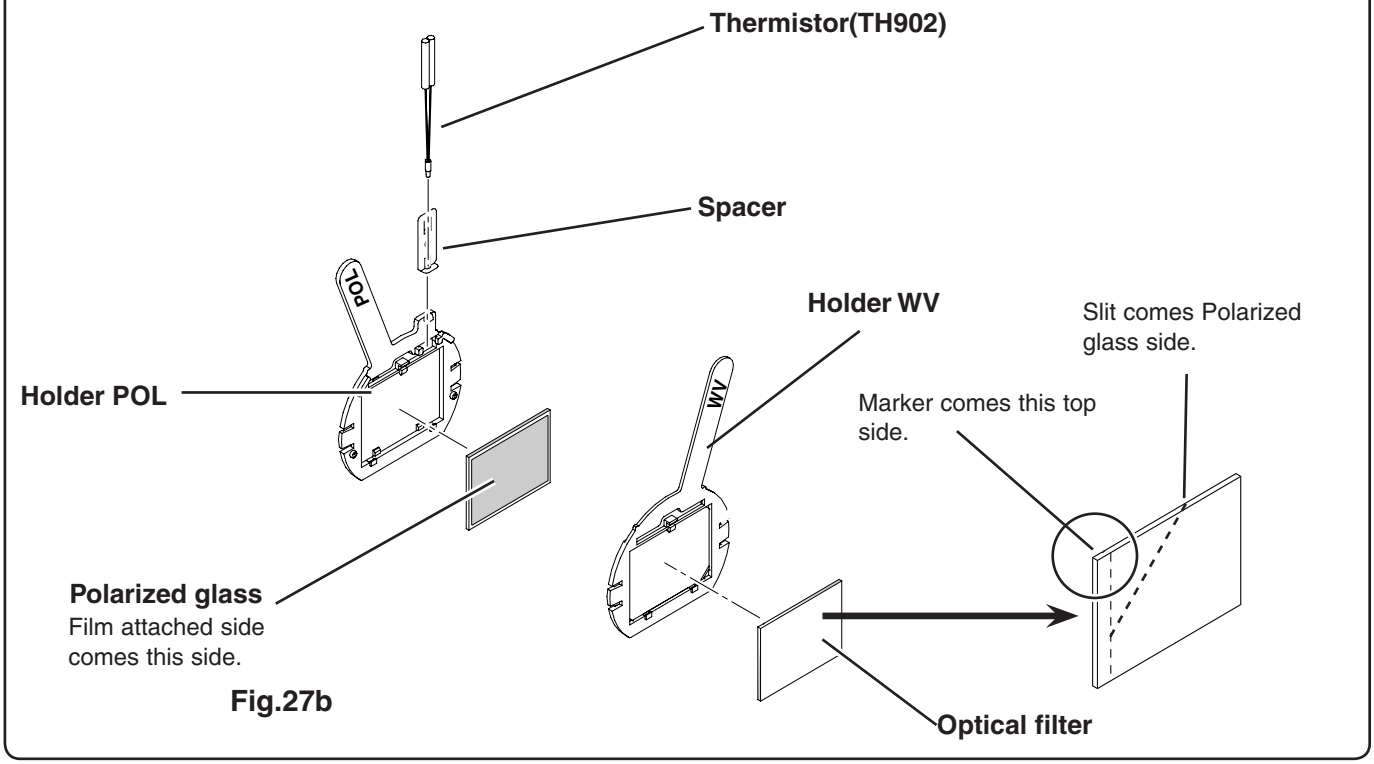


Fig.27b

* The optical filter must be used with the specified parts according to the mounted prism assembly type, Type-L or Type-R. See the parts list for further details.

28 Red Polarized glass ass'y and Optical filter ass'y removal.

1. Remove 1 screw-A(M2.5X6) and remove the stopper.
2. Remove the Polarized glass ass'y and remove the Optical filter ass'y ass'y.

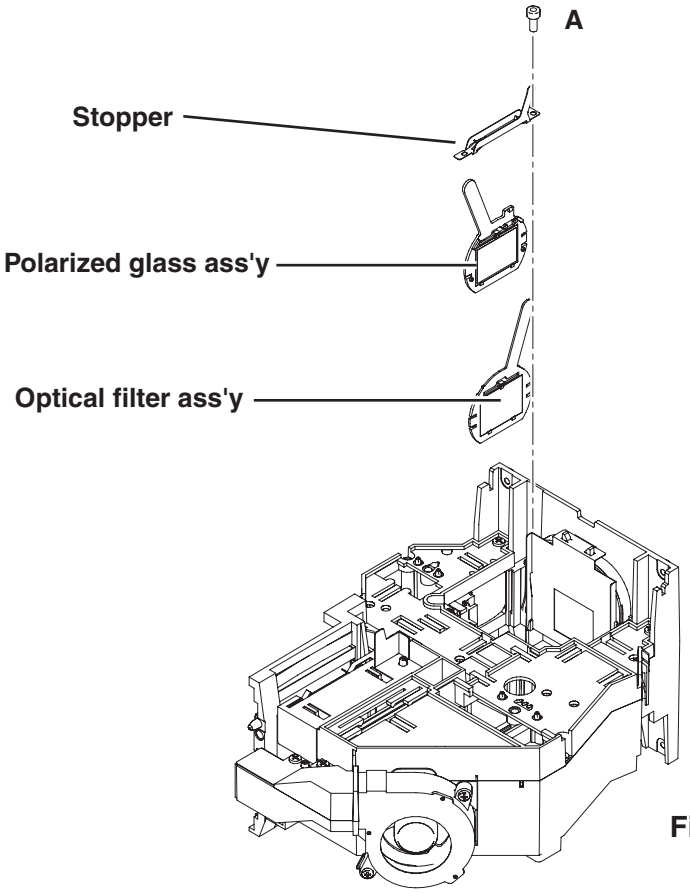


Fig.28a

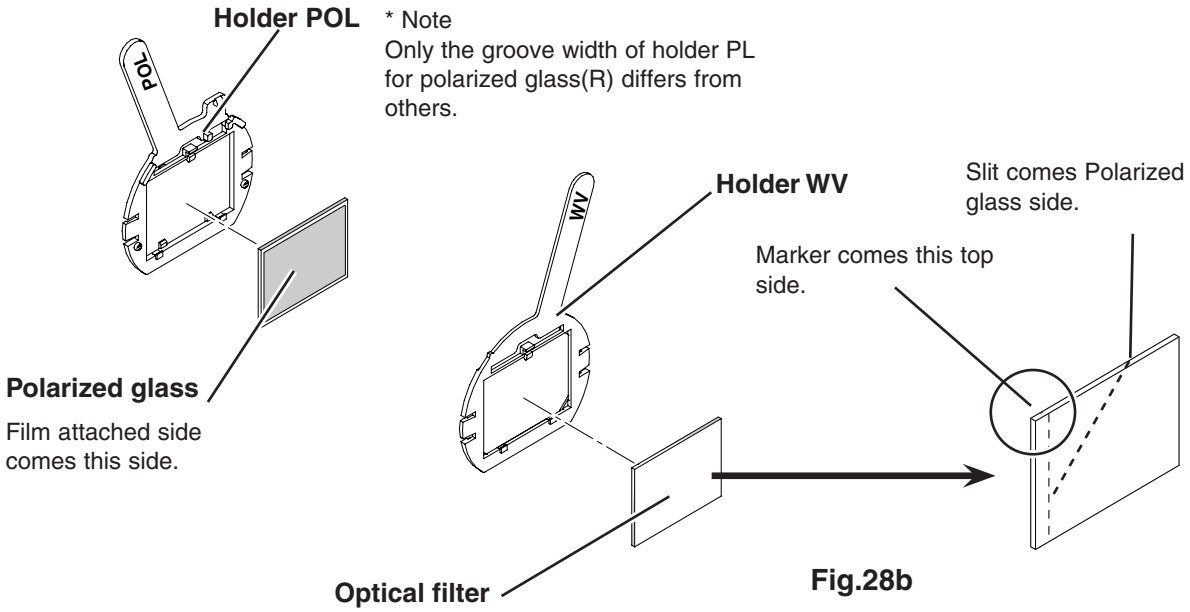
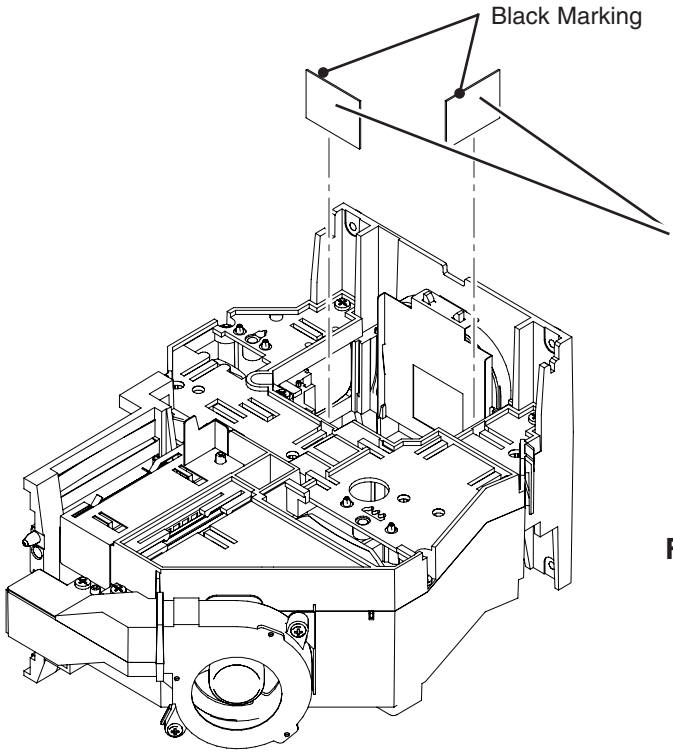


Fig.28b

* The optical filter must be used with the specified parts according to the mounted prism assembly type, Type-L or Type-R. See the parts list for further details.

29 Polarized glasses(GB) removal.

1. Remove the Polarized glasses(GB) upward.



Note on Polarized glass handling
When replacing the polarized glass(GB), you must ware the clean glove and do not touch the glass face. Mount them as the black marker comes top side as shown in the figure.

Fig.29

30-1 Optical base top removal-1.

1. Remove 2 screws-A(T3X10) and remove the Stopper lens.

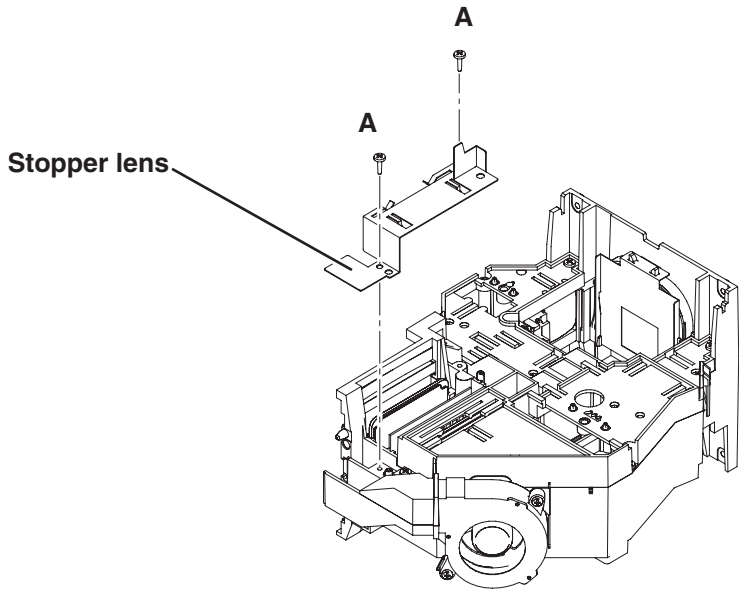


Fig.30-1

30-2 Optical base top removal-2.

1. Remove 3 screws-A(T3X10) and remove the optical base top.

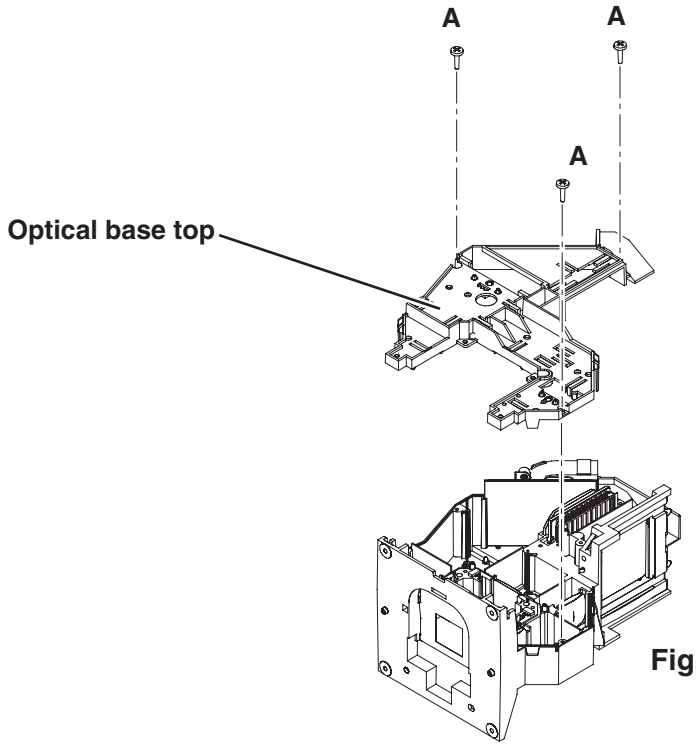


Fig.30-2

30-3 Optical base top removal-3.

1. Remove 2 screws-A(T3X10) and remove the Fan(FN903) ass'y.
2. Unhook 2 hooks and pull out the Shield plate.

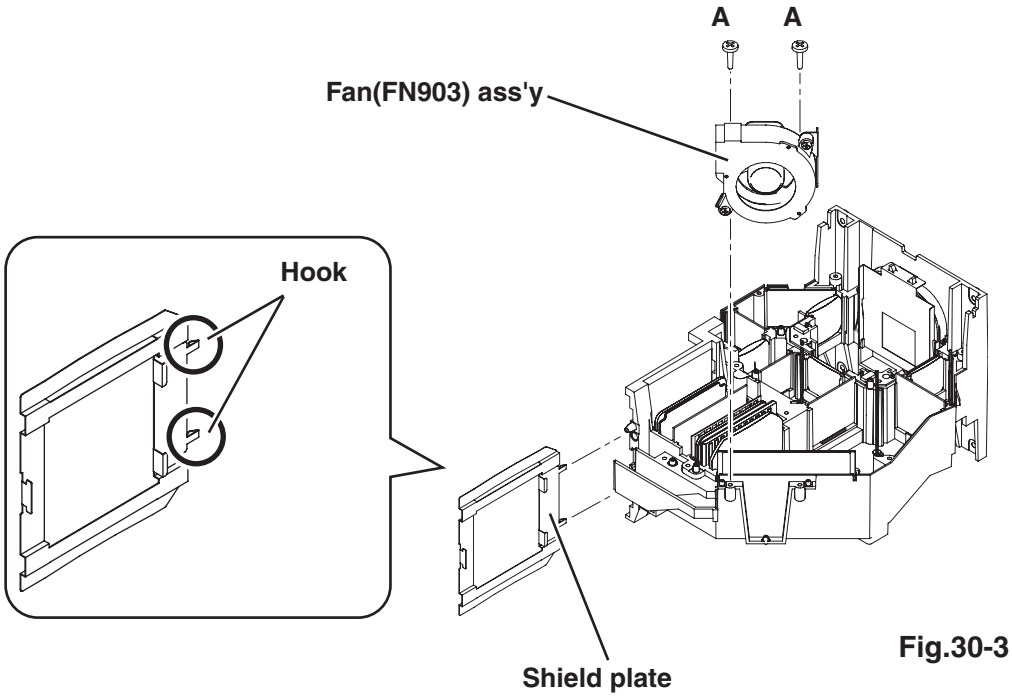


Fig.30-3

31 Fan(FN903) ass'y disassemblies.

1. Remove 2 screws-A(M3X8) and remove the Fan(Fn903).

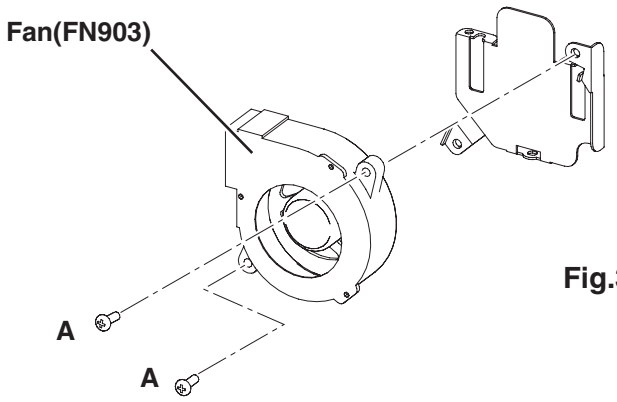
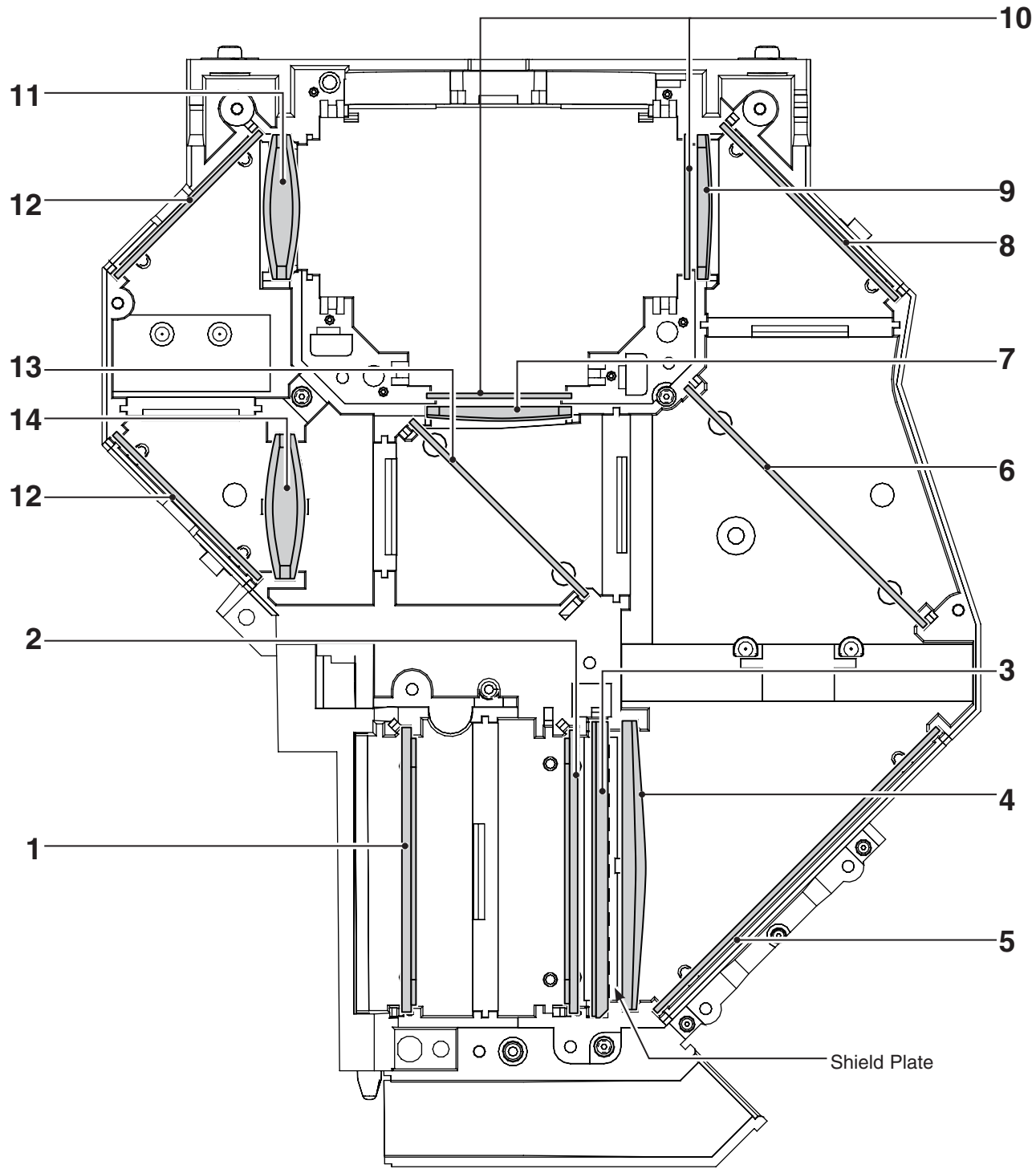
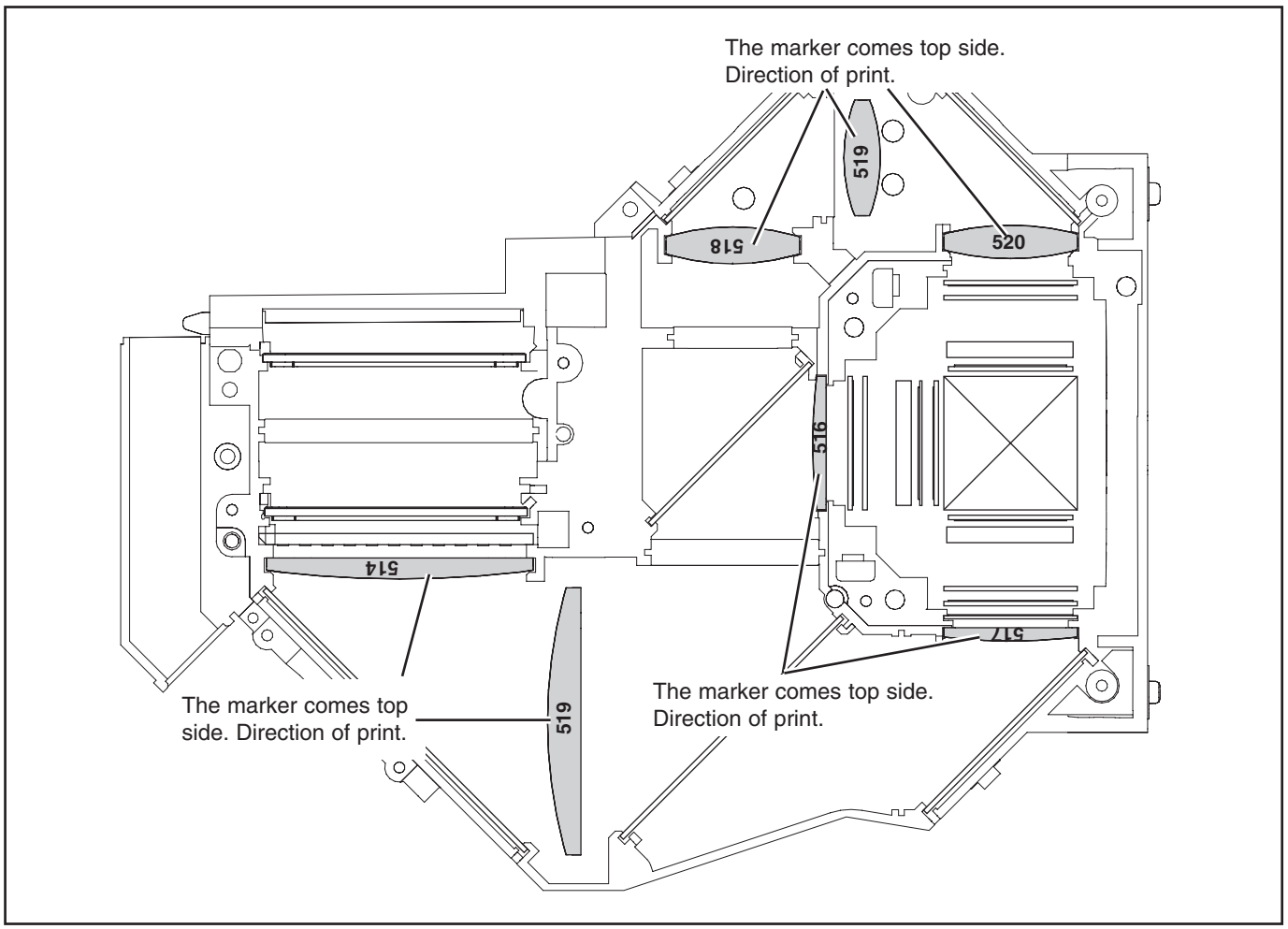


Fig.31

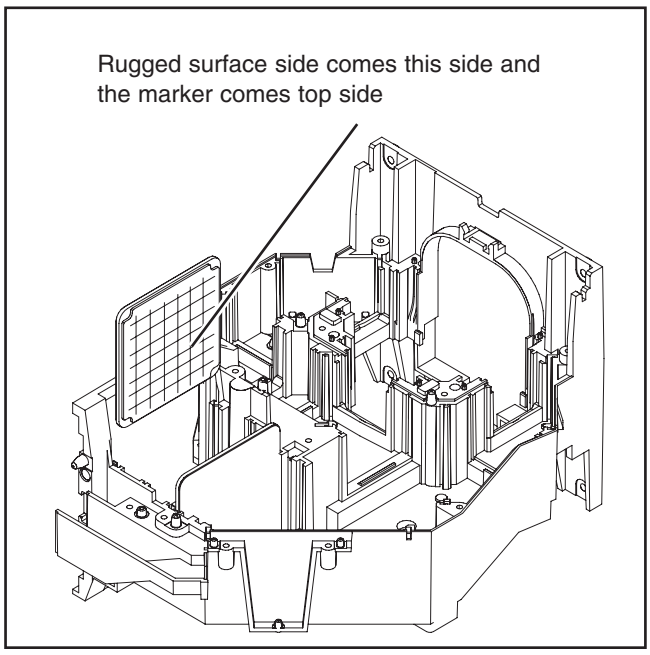
Optical parts locations and directions in the Optical Unit

No.	Parts Name	No.	Parts Name
1	LENS,INTEGRATOR(IN)	8	MIRROR(B)
2	LENS,INTEGRATOR(OUT)	9	LENS,CONDENSER(B)
3	ASSY,PRISM(PBS)	10	PREPOLARIZED GLASS(IN)
4	LENS,CONDENSER(IN)	11	LENS,CONDENSER(R)
5	MIRROR(W-COLD)	12	MIRROR(R)
6	DICHROIC MIRROR (B)	13	DICHROIC MIRROR (G)
7	LENS,CONDENSER(G)	14	LENS,RELAY(IN)

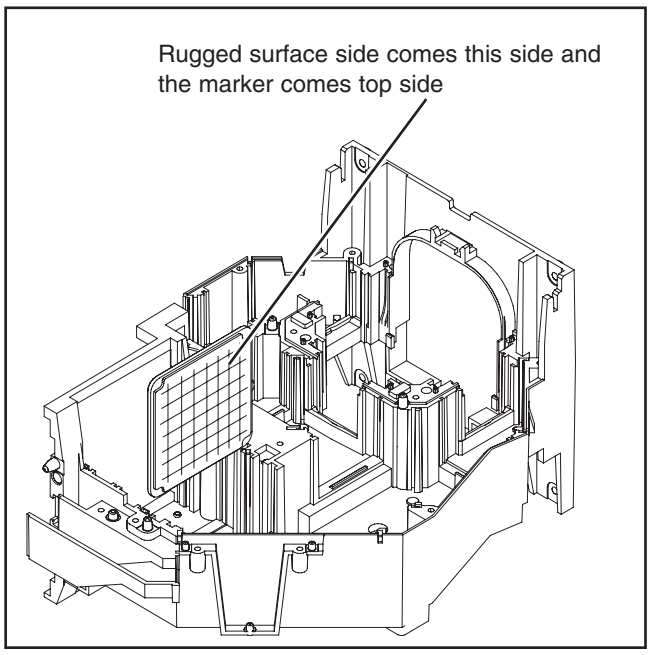


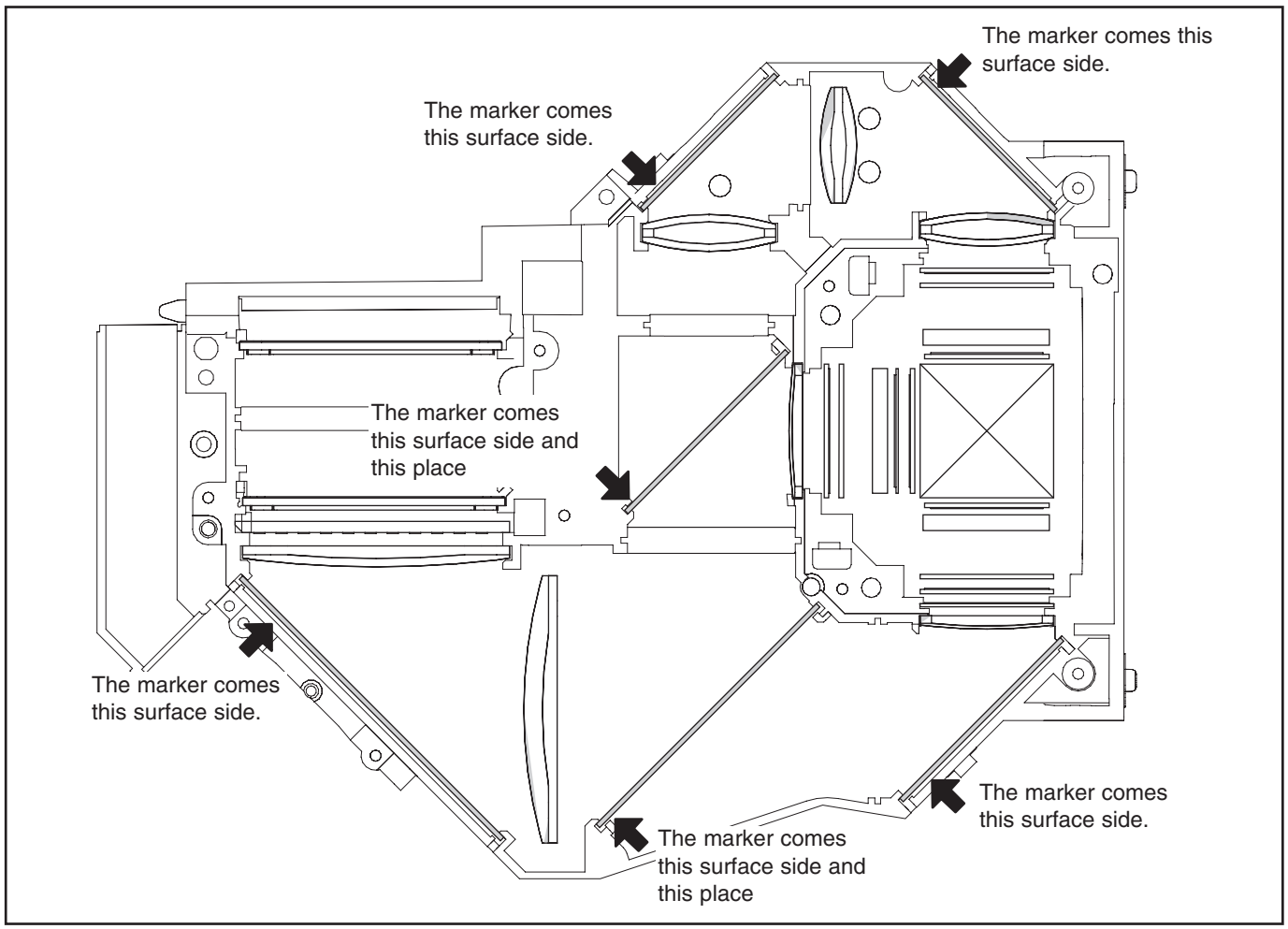


Integrator lens (IN)

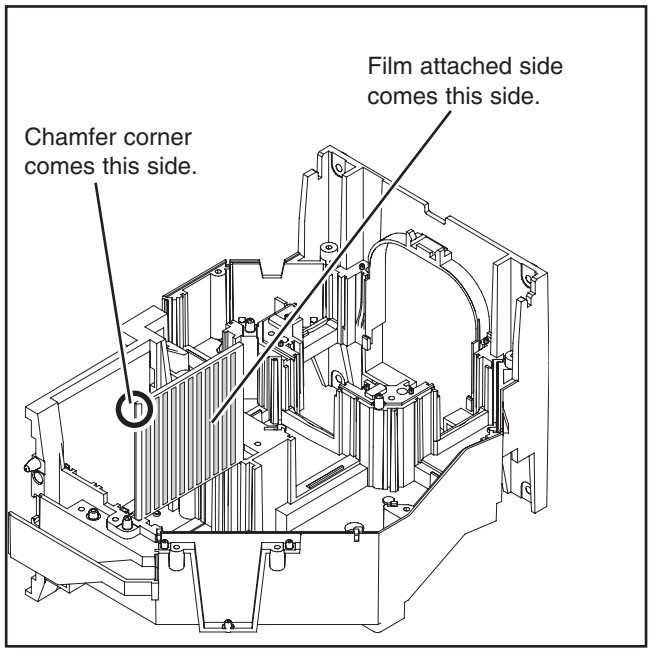


Integrator lens (OUT)




The marker comes this surface side.
The marker comes this surface side.
The marker comes this surface side and this place
The marker comes this surface side.
The marker comes this surface side.
The marker comes this surface side and this place

PBS


Film attached side comes this side.
Chamfer corner comes this side.

Adjustments

Adjustments after Parts Replacement

● : Adjustment necessary ❍ : Check necessary

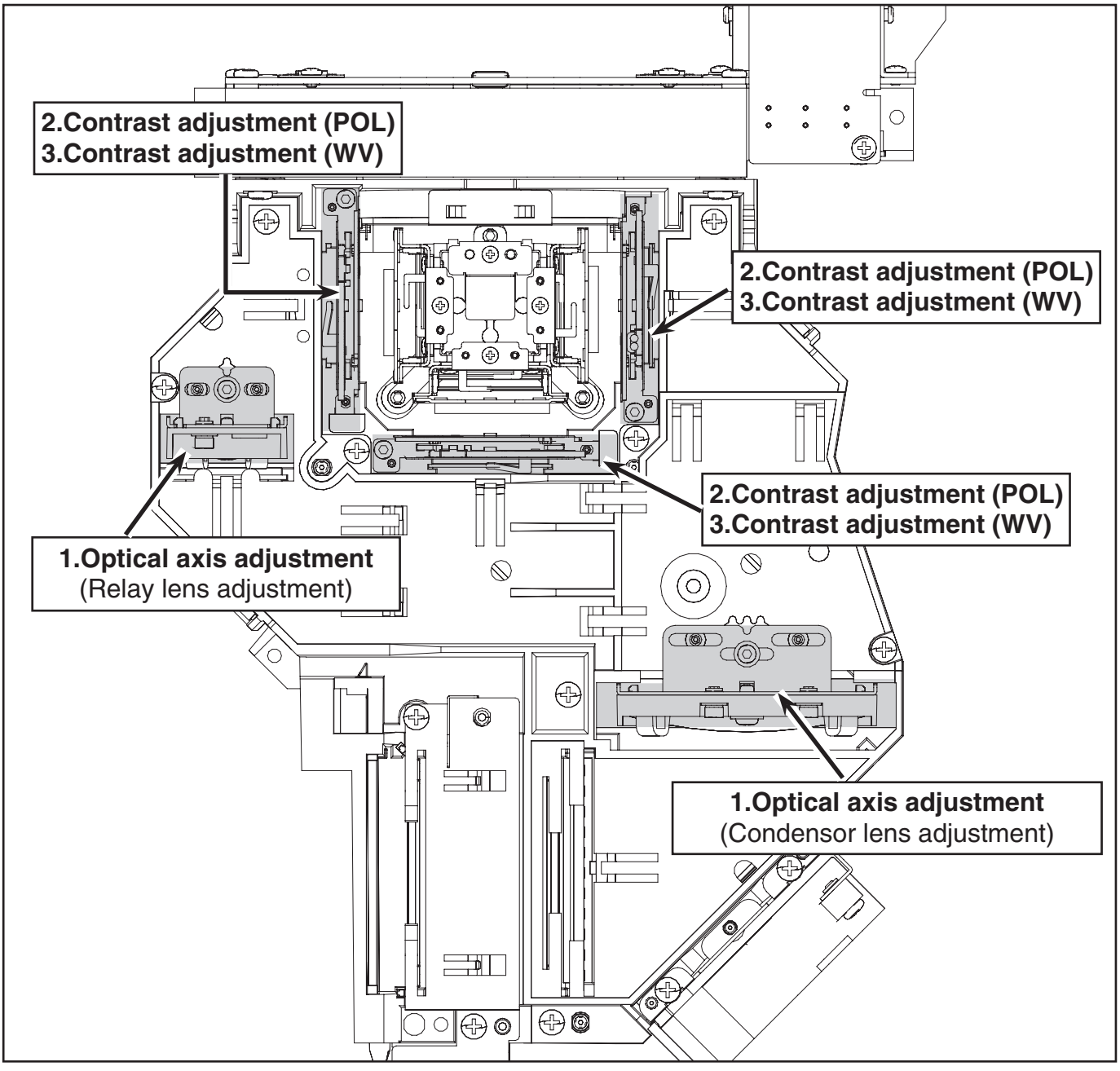
		Disassembly / Replaced Parts									
		LCD/ Prism Ass'y	Conden-sor Lens	Relay Lens (OUT)	Polarized Glass (POL)	Optical Filter (WV)	Integ-rator Lens	PBS	Power Board	Main Board	Fans
Optical Adjustment	Optical axies adjustment	●	●	●			●	●			
	Contrast adjustment (POL)	●			●						
	Contrast adjustment (WV)	●				●					
Electrical Adjustments	Fan control adjustment								●	●	●
	Panel type check and setting	●								●	
	PC-Auto calibration adjustment									●	
	Video-Auto calibration adjustment									●	
	480i-Auto calibration adjustment									●	
	Common center adjustment	❍								●	
	50% luminance adjustment [PC]									●	
	50% luminance adjustment [Video]									●	
	White balance adjustment [PC]	❍								●	
	White balance adjustment [Video]	❍								●	
	White uniformity adjustment	❍								❍	
	Filter calibration adjustment								●	●	●

Optical Adjustments

Before taking optical adjustments below, remove the Cabinet Top following to the "Mechanical Disassemblies".
Adjustments require a 2.0mm hex wrench, Philips Screwdriver and a slot screwdriver. When you adjust Integrator lens or Relay lens adjustment, you need to disconnect some connectors and FPC cables of LCD panels on the main board.
When adjusting optical component, adjust each adjustment item in numerical order. Incorrect adjustment steps may produce improper adjustment. The items adjusted correctly can be omitted from the steps.
Note: Do not disconnect connectors on the main board, because the projector can not turn on or operate properly for adjustment.

WARNING : USE UV RADIATION EYE AND SKIN PROTECTION DURING SERVICING

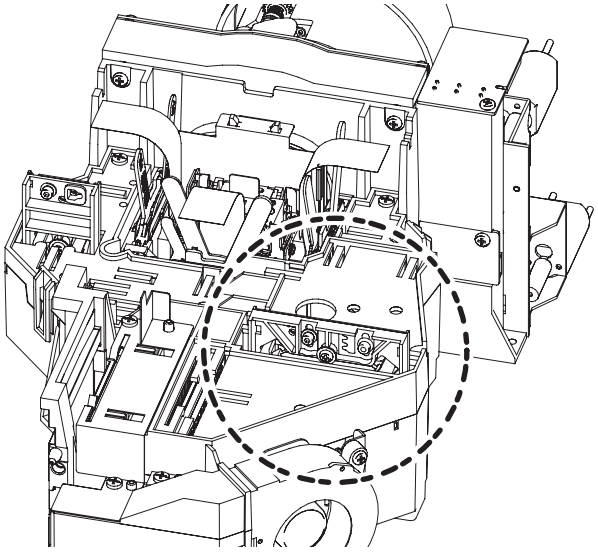
CAUTION: To prevent suffer of UV radiation, those adjustments must be completed within 25 minutes.



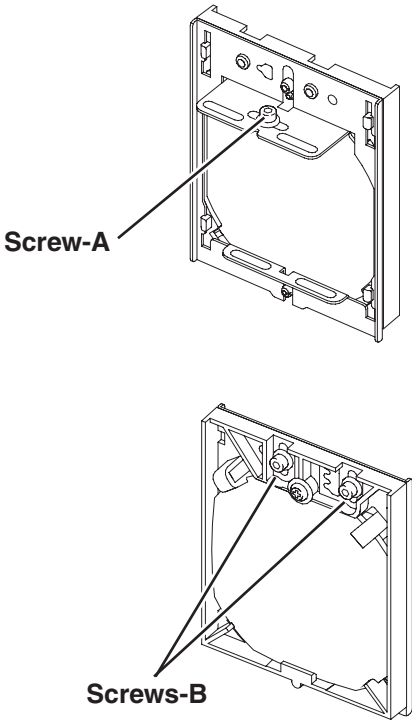
1. Optical axis adjustment

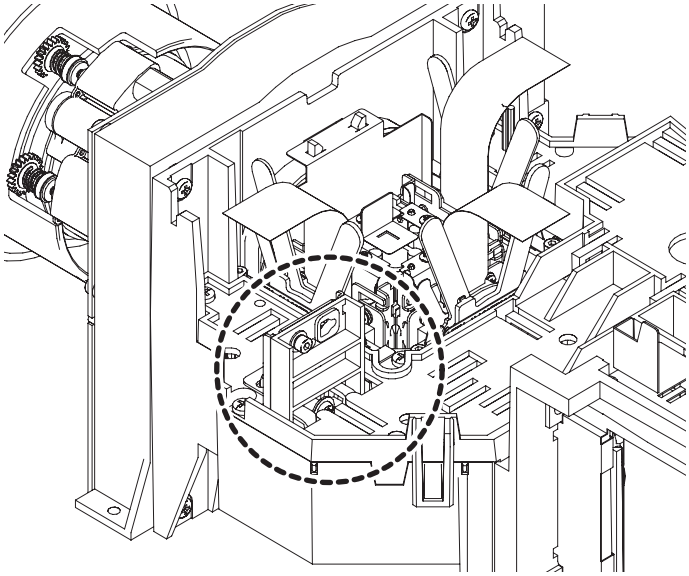
Before adjustment

1. Turn the projector on by a state of without FPC cables.
2. Condenser lens adjustment
   Loosen 1 screw A and 2 screws B.
3. Relay lens adjustment
   Loosen 1 screw C and 1 screw D.

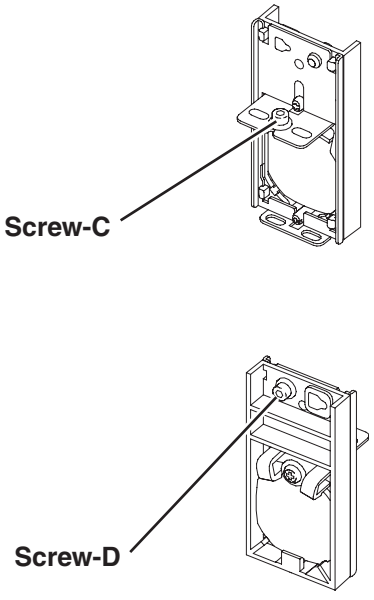


Condenser lens adjustment



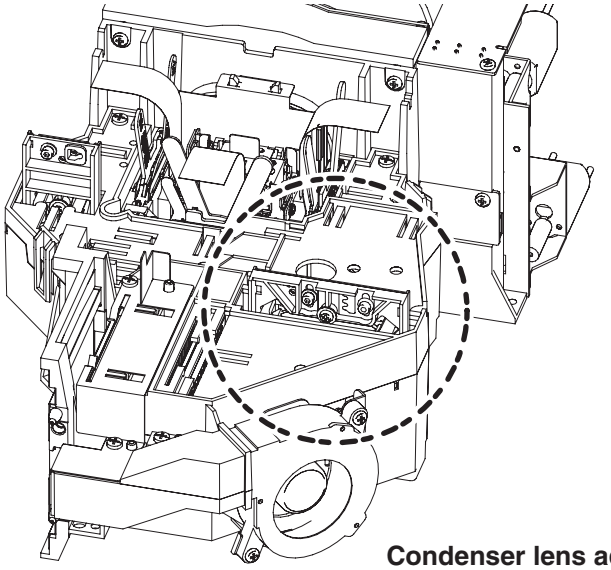


Relay lens adjustment

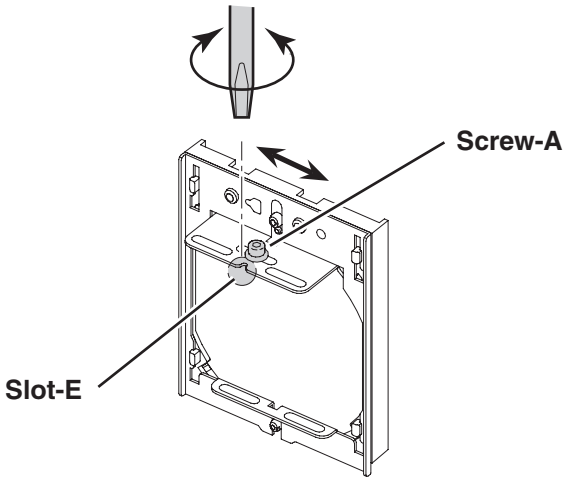


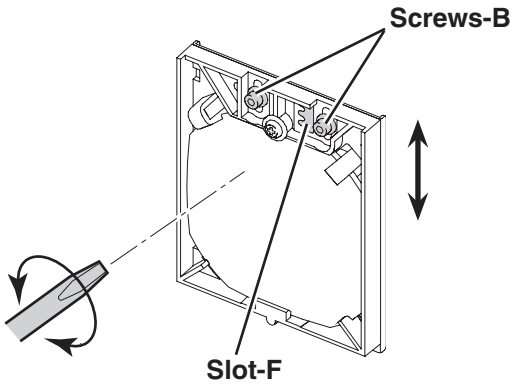
Condenser lens adjustment-1

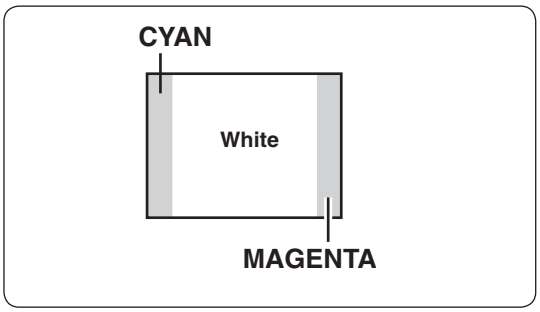
1. Adjust the slot E to make shading appears on the right and left(magenta and cyan) of the screen as shown in figure.
2. Adjust the slot F to make shading appears on the top and bottom(cyan and magenta) of the screen as shown in figure.

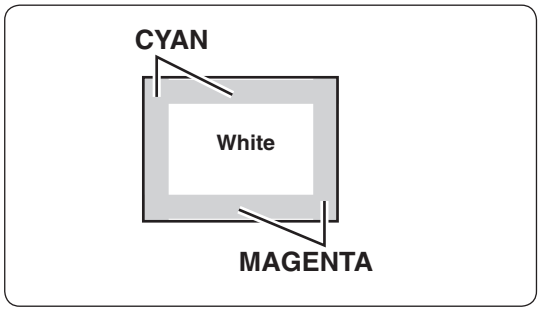


Condenser lens adjustment -1



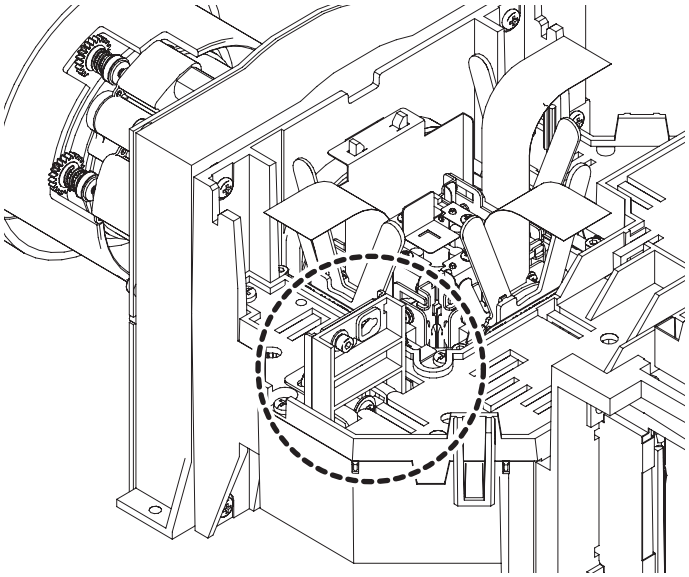


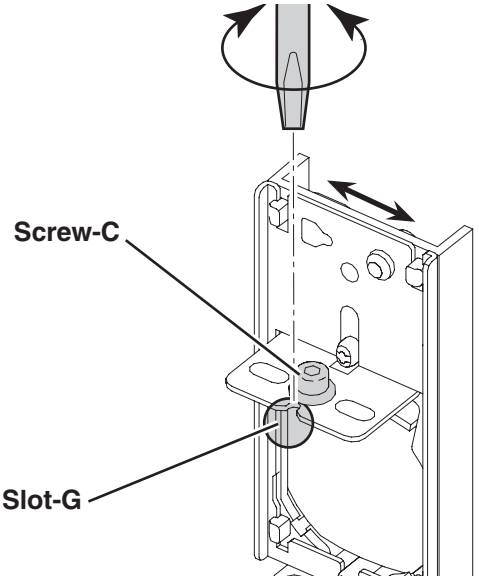


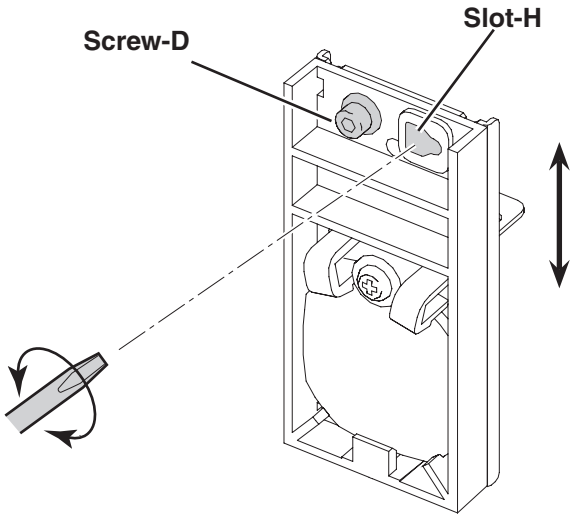


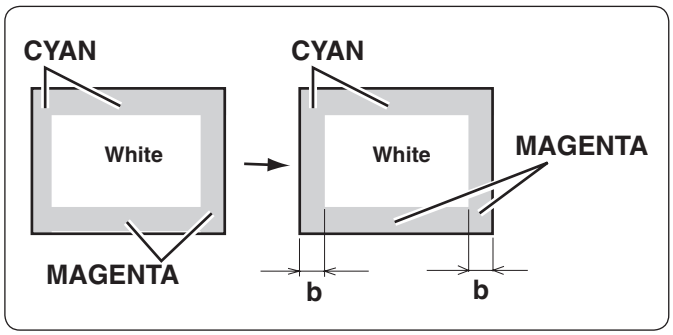
Relay lens adjustment

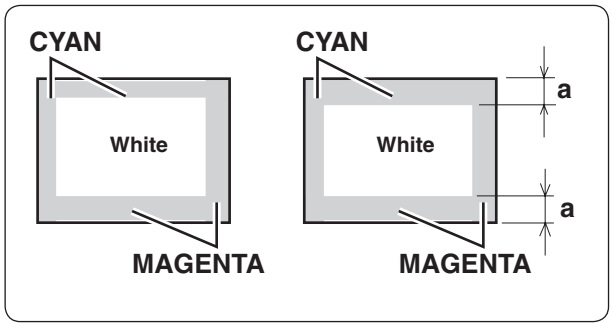
3. Adjust the slot G.
   It is adjusted that cyan and the magenta in the top and bottom part become the same width.
4. Adjust the slot H.
   It is adjusted that cyan and the magenta in the right and left part become the same width.
5. Tighten screw **C** and screw **D** to fix the relay lens unit.





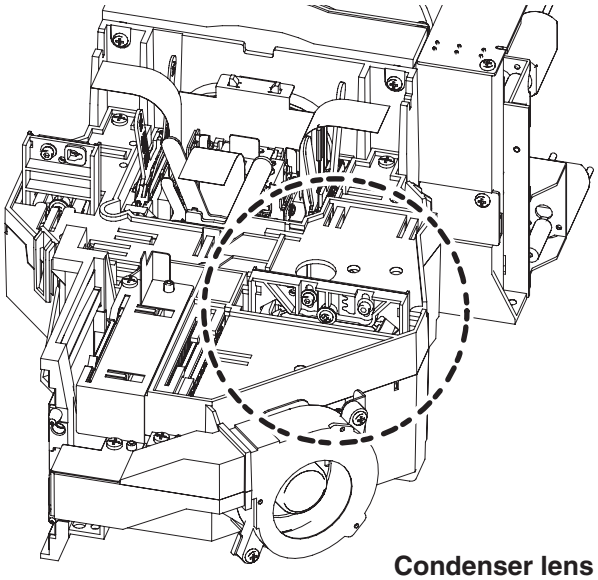




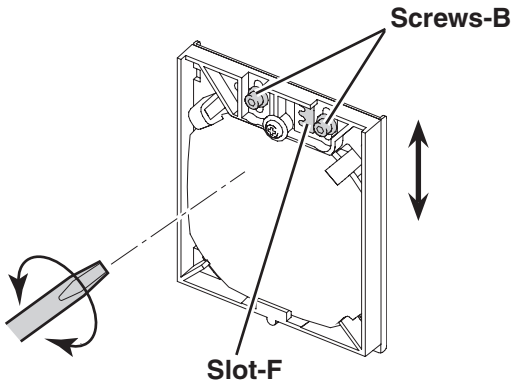


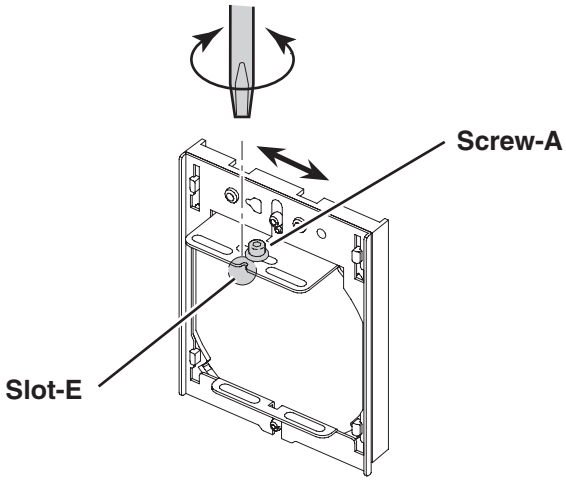
Condenser lens adjustment-2

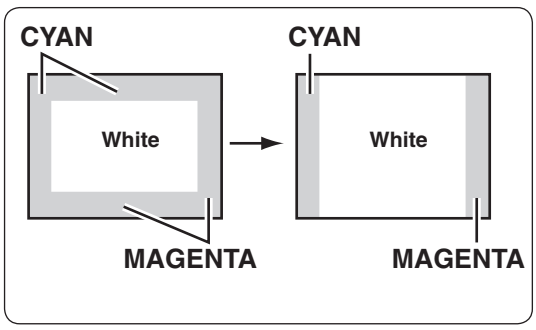
6. Adjust the slot F to make color uniformity in white by using a slot screwdriver.
   (Top and bottom shading are erased.)
7. Adjust the slots E to make color uniformity in white by using a slot screwdriver.
   (Right and left shading are erased.)
8. Tighten 1 screws **A** and 2 screws **B** to fix the integrator lens unit.

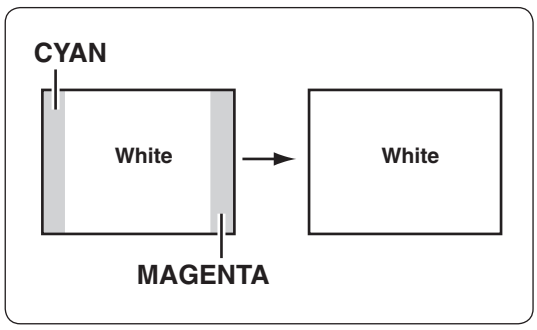


Condenser lens adjustment -1







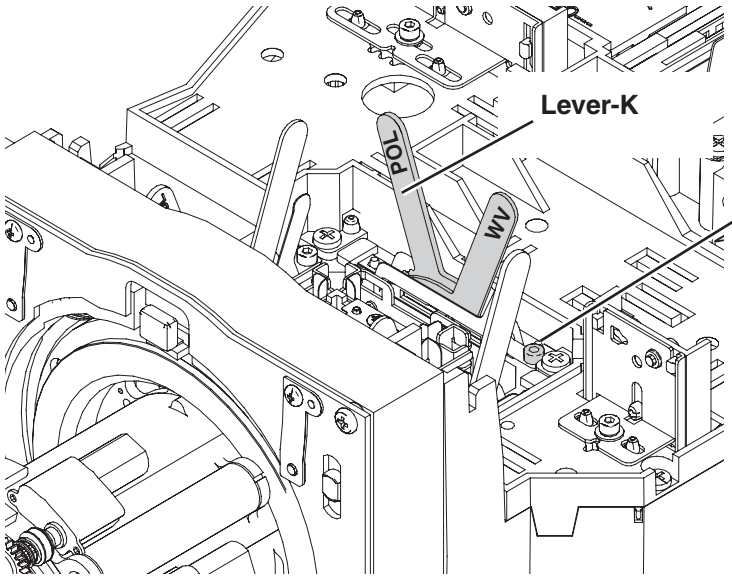


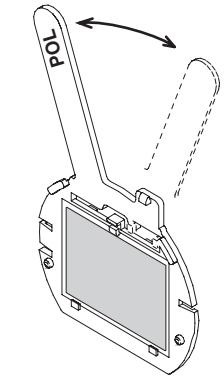
2. Contrast adjustment (POL)

[Before Adjustment]
- Input a 100% of black raster signal.

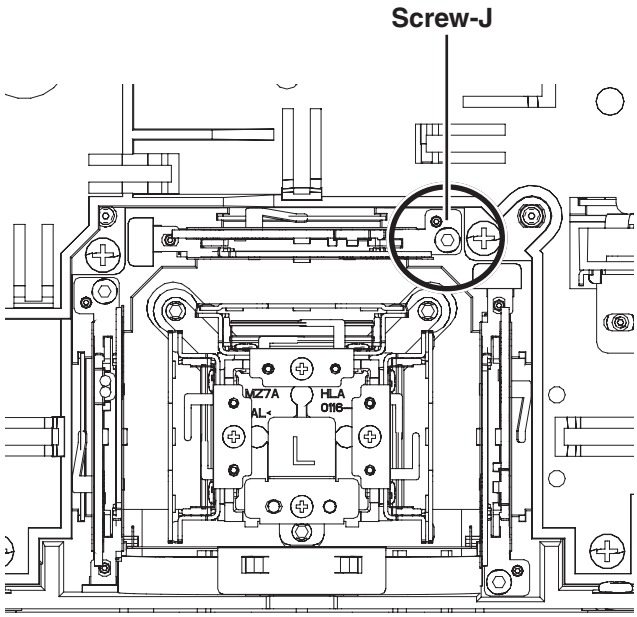
G-Contrast adjustment (POL)

1. Loosen a screw **J** on the stopper plate which you intend to adjust.
2. Adjust the lever **K** (POL) to obtain the darkest brightness on the screen.
   (This screw **J** is tightened later. this screw is tightend after Optical filter adjustment.)



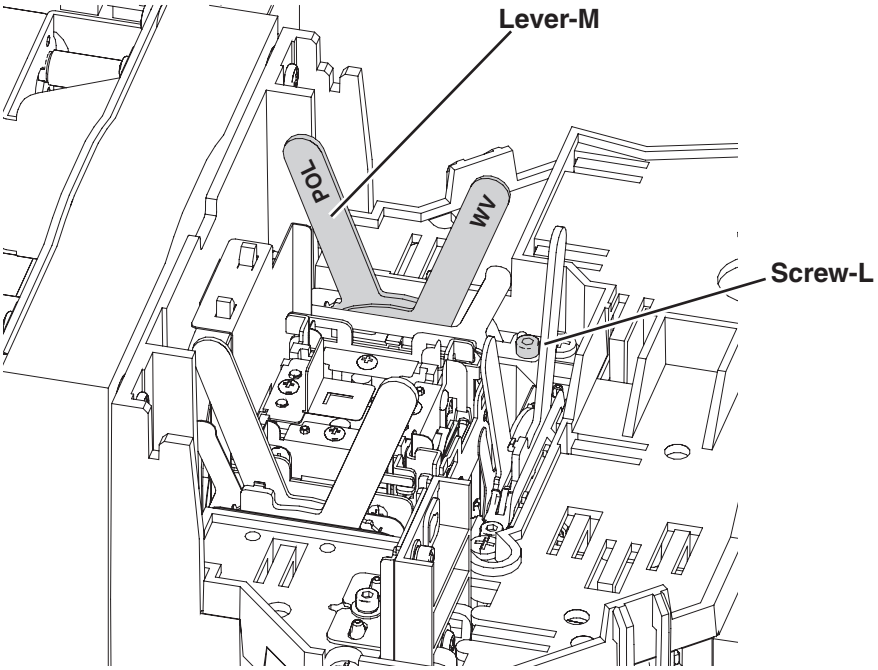


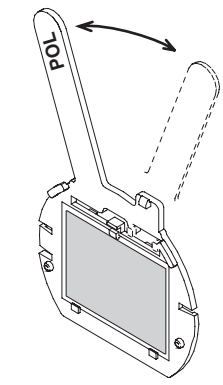
Polarized glass unit (Green)



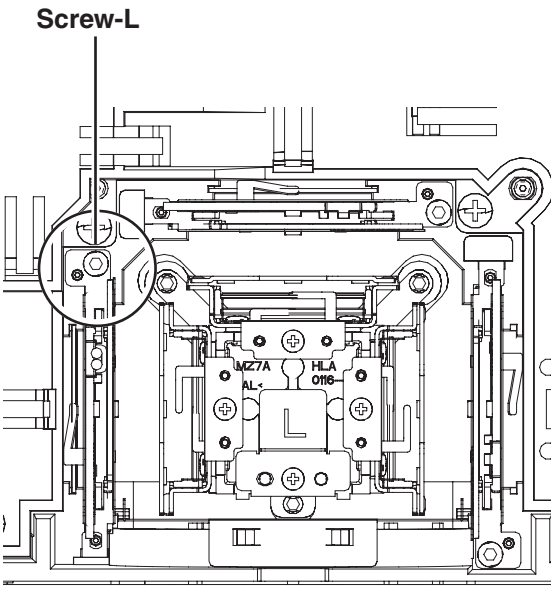
B-Contrast adjustment (POL)

1. Loosen a screw **L** on the stopper plate which you intend to adjust.
2. Adjust the lever **M** (POL) to obtain the darkest brightness on the screen.
   (This screw **L** is tightened later. this screw is tightend after Optical filter adjustment.)



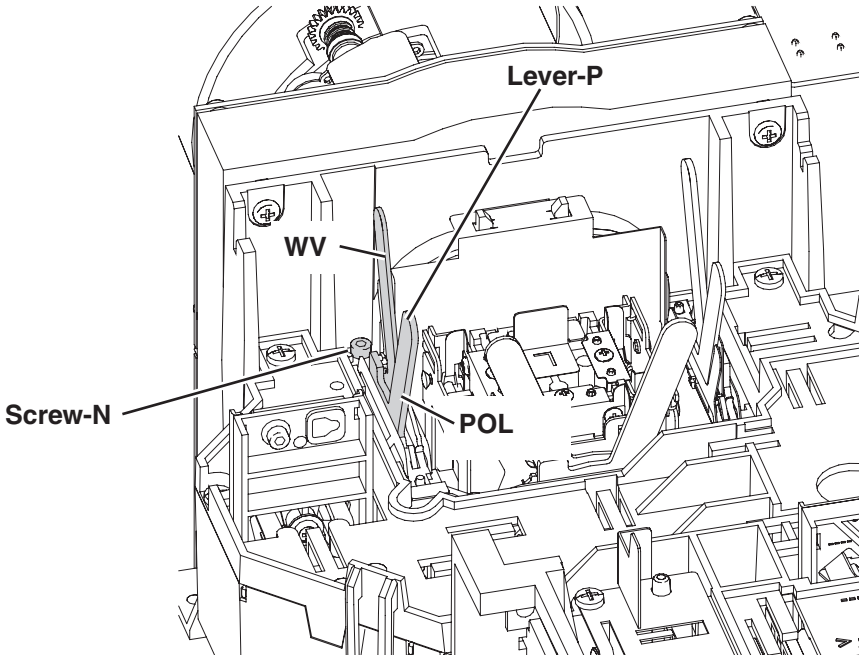


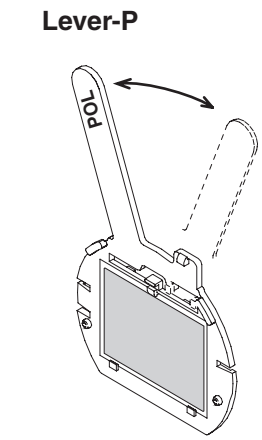
Polarized glass unit (Blue)



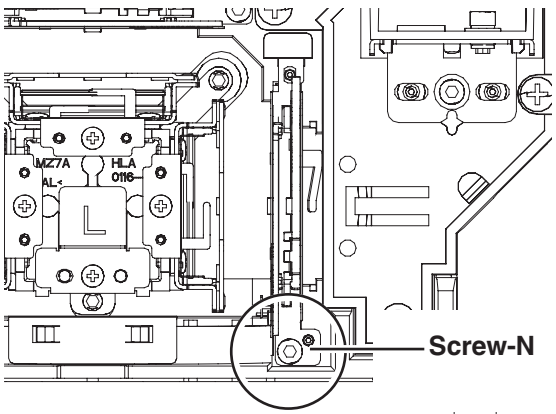
R-Contrast adjustment (POL)

1. Loosen a screw **N** on the stopper plate which you intend to adjust.
2. Adjust the lever **P** (POL) to obtain the darkest brightness on the screen.
(This screw **N** is tightened later. this screw is tightend after Optical filter adjustment.)





Polarized glass unit (Red)



3. Contrast adjustment (WV)

[Before Adjustment]
- Input a 100% of black raster signal.

G-Contrast adjustment (WV)

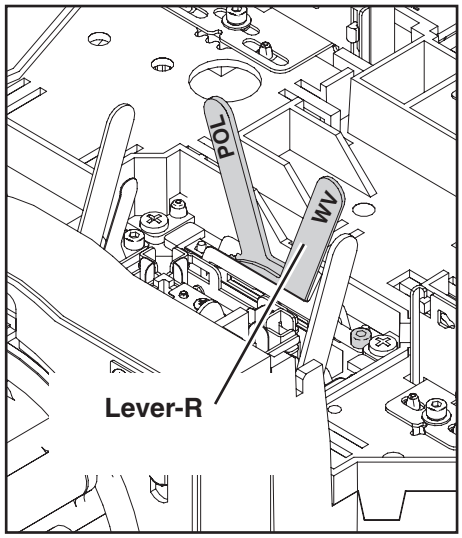
1. Adjust the lever **R** (WV) to obtain the darkest brightness on the screen.
2. Tighten the screw **J**.

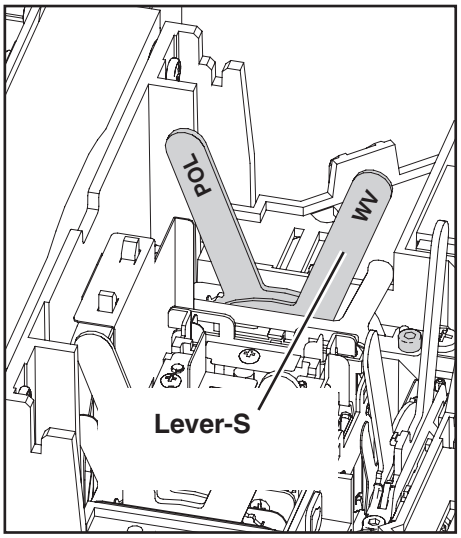
B-Contrast adjustment (WV)

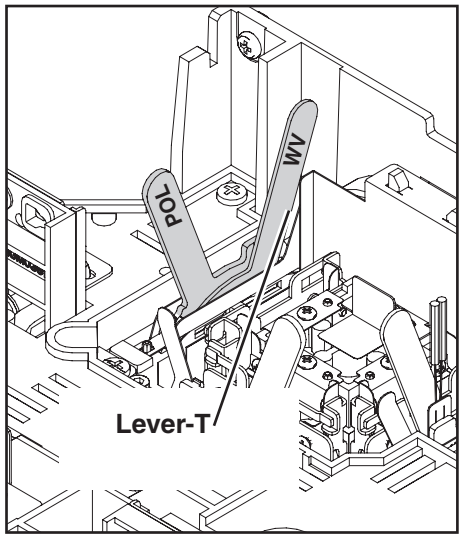
1. Adjust the lever **S** (WV) to obtain the darkest brightness on the screen.
2. Tighten the screw **L**.

R-Contrast adjustment (WV)

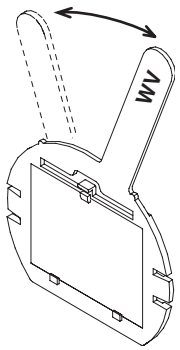
1. Adjust the lever **T** (WV) to obtain the darkest brightness on the screen.
2. Tighten the screw **N**.



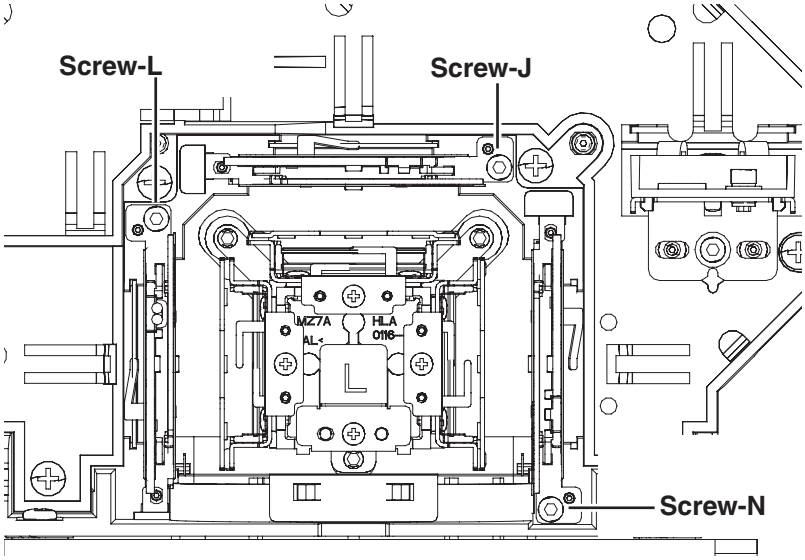




Lever-R, S, T



Optical filter unit (R, G, B)



Electrical Adjustments

Service Adjustment Menu Operation

To enter the service mode

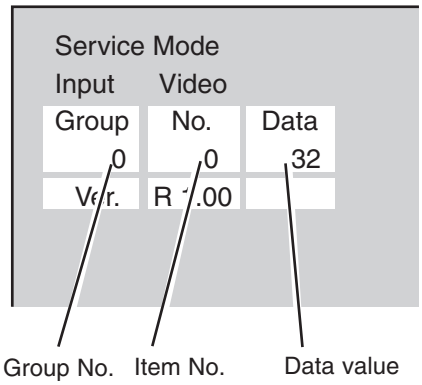
To enter the “Service Mode”, press and hold the **MENU** and **SELECT button** for more than 3 seconds. The service menu appears on the screen as follows.

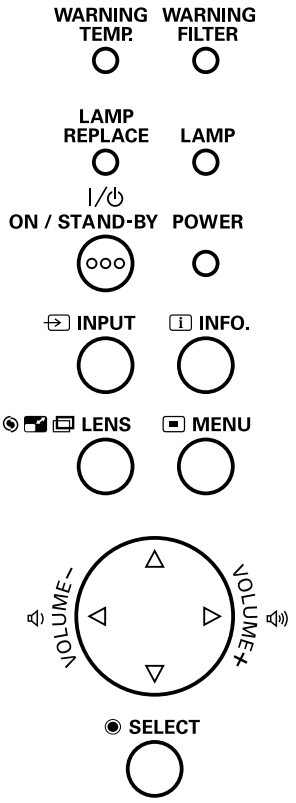
To adjust service data

Select the adjustment group no. by pressing the **MENU button** (increase) or **SELECT button** (decrease), and select the adjustment item no. by pressing the pointer ▲ or ▼ **button**, and change the data value by pressing the ◀ or ▶ **button**. Refer to the “Service Adjustment Data Table” for further description of adjustment group no., item no. and data value.

To exit the service mode

To exit the service mode, press the **ON/STAND-BY button**.





Memory IC (IC1391) Replacement

Memory IC on the main board stores the data for the service adjustments, and should not be replaced except for the case of defective device.
If replaced, the re-adjustments are required following to the “Electrical Adjustments”.
The data of lamp replacement counter is stored in the Memory IC.
Please note that the lamp replace counter will be reset when the memory IC is replaced.
(Lamp replace counter cannot be set to the previous value.)

● **Caution to memory IC replacement**

When memory IC is replaced with new one, the CPU writes down the default data of the service adjustments to the replaced IC as the mentioned on the service adjustment table. As these data are not the same data as factory shipped data, it should be required to perform the re-adjustments following to the “Electrical Adjustments”.
Please note that in this case the lamp replace counter will be reset.

● **Caution of Main Board replacement (in the case memory IC is not defective)**

When the main board is replaced, memory IC should be replaced with the one on previous main board. After replacement, it should be required to perform the re-adjustments following to the “Electrical Adjustments”.
In this case, the lamp replace counter can be kept the value as before.

Circuit Adjustments

CAUTION: The each circuit has been made by the fine adjustment at factory. Do not attempt to adjust the following adjustments except requiring the readjustments in servicing otherwise it may cause loss of performance and product safety.

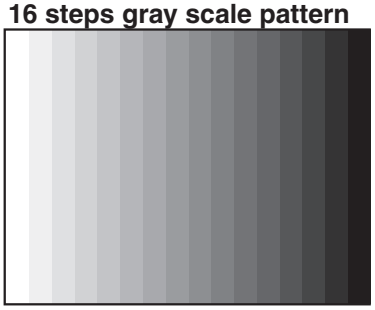
WARNING : USE UV RADIATION EYE AND SKIN PROTECTION DURING SERVICING.

CAUTION:
To prevent suffer of UV radiation, those adjustments must be completed within 25 minutes.

[Adjustment Condition]

- Input signal
  - Video signal .....1.0Vp-p/75Ω terminated, 16 steps gray scale (Composite video signal)
  - Computer signal.....0.7Vp-p/75Ω terminated, 16 steps gray scale pattern
  - Component Video signal.....0.7Vp-p/75Ω terminated, 16 steps gray scale pattern
- Picture control mode .....“STANDARD” mode unless otherwise noted.

16 steps gray scale pattern



Note:
* Please refer to “Service Adjustment Menu Operation” for entering the service mode and adjusting the service data.

1 Fan Voltages adjustment

1. Enter the service mode.
2. Connect a digital voltmeter to test point **A** (+) and chassis ground (-). (3 test points are provided for this adjustment, perform all the voltage adjustments in the table below.)
3. Select group no. “**250**”. Select item no. **B** and change data value to adjust the voltage to be **4.5** ± 0.05V.
4. Select group no. “**250**”. Select item no. **C** and change data value to adjust the voltage to be **13.8** ± 0.05V.
5. Repeat step 2 to 4 for the remaining test points in the table below.

Test Point A	Item No. B	Item No. C
K66D-1	0	1
K66E-1	2	3
K66F-1	4	5

2 Panel Type Check and Setting

* Before setting, you need to check which type of LCD panel is placed on the projector according to the item "LCD Panel/Prism Ass'y removal" in the chapter "Optical Parts Disassembly".

1. Enter the service mode.
2. Panel Type Check
   Select group no. “**290**”, item no. “**0**”. Check the data value as follows;
   Data value: 0 For L-Type of LCD Panel
   Data value: 20 For R-Type of LCD panel
3. Panel Type Setting
   Select group no. “**290**”, item no. “**1**” and change data value from 10 to 0 or 20 depending on your LCD Panel type. When the data value reaches 0 or 20, it returns to 10 quickly. The gamma-characteristics changes according to your selection.

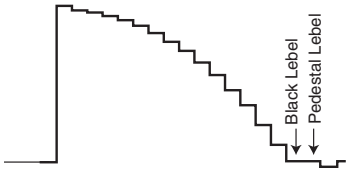
Note:
Be careful to take this adjustment. The value of gamma adjustment data will be reset and cannot be restored if you change the mode of LCD panel type.

3 PC-Auto Calibration adjustment

1. Enter the service mode.
2. Receive the 16-step grey scale computer signal with **Input1 [RGB]** mode.
3. To start the auto-calibration for PC adjustment, select group no. "**260**", item no. "**0**" and then change data value from "**0**" to "**1**". After the auto-calibration completed, "OK" will appear on the screen.

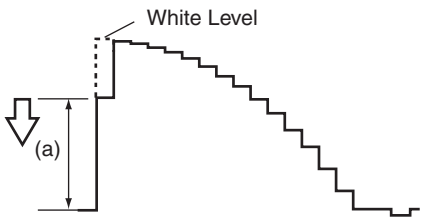
3 PC-Pedestal adjustment

1. Enter the service mode.
2. Receive the 16-step grey scale computer signal with **Input1 [RGB]** mode.
3. Connect an oscilloscope to test point "**TP35G**" (+) and chassis ground (-).
4. Select group no. "**0**", item no. "**0**" and change data value to adjust the pedestal level and black level to be the same level.
5. Connect an oscilloscope to test point "**TP35R**" (+) and chassis ground (-).
6. Select item no. "**1**" and change data value to adjust the pedestal level and black level to be the same level.
7. Connect an oscilloscope to test point "**TP35B**" (+) and chassis ground (-).
8. Select item no. "**2**" and change data value to adjust the pedestal level and black level to be the same level.



3 PC-Gain adjustment

1. Enter the service mode.
2. Receive the 16-step grey scale computer signal with **Input1 [RGB]** mode.
3. Connect an oscilloscope to test point "**TP35G**" (+) and chassis ground (-).
4. Select group no. "**0**", item no. "**3**" and adjust the amplitude "**a**" to be minimum by changing the Data value.
5. Connect an oscilloscope to test point "**TP35R**" (+) and chassis ground (-).
6. Select group no. "**0**", item no. "**4**" and adjust the amplitude "**a**" to be minimum by changing the Data value.
7. Connect an oscilloscope to test point "**TP35B**" (+) and chassis ground (-).
8. Select group no. "**0**", item no. "**5**" and adjust the amplitude "**a**" to be minimum by changing the Data value.



4 Video-Auto Calibration adjustment

1. Enter the service mode.
2. Receive the 16-step grey scale composite video signal with **Input3 [Video]** mode.
3. To start the auto-calibration for Video adjustment, select group no. "**260**", item no. "**0**" and then change data value from "**0**" to "**1**". After the auto-calibration completed, "OK" will appear on the screen.

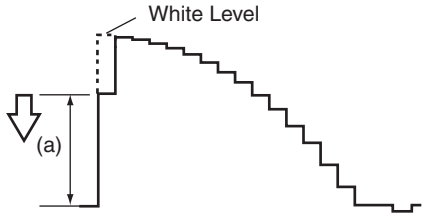
5 480i-Auto Calibration adjustment

1. Enter the service mode.
2. Receive the 16-step grey scale 480i-component video signal with **Input2 [Component]** mode.
3. To start the auto-calibration for 480i-component adjustment, select group no. "**260**", item no. "**0**" and then change data value from "**0**" to "**1**". After the auto-calibration completed, "OK" will appear on the screen.

Perform these manual adjustments instead of the Auto-Calibration adjustment from [3] to [5] when the auto-calibration is failed.

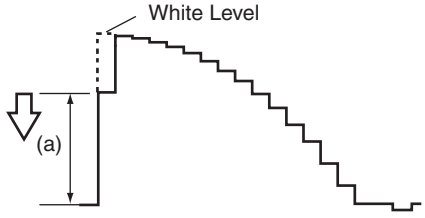
4 Video-Gain adjustment

1. Enter the service mode.
2. Receive the 16-step grey scale composite video signal with **Input3 [Video]** mode.
3. Connect an oscilloscope to test point "**TP35G**" (+) and chassis ground (-).
4. Select group no. "**20**", item no. "**2**" and adjust the amplitude "**a**" to be minimum by changing the Data value.



5 480i-Gain adjustment

1. Enter the service mode.
2. Receive the 16-step grey scale 480i-component video signal with **Input2 [Component]** mode.
3. Connect an oscilloscope to test point "**TP35G**" (+) and chassis ground (-).
4. Select group no. "**20**", item no. "**0**" and adjust the amplitude "**a**" to be minimum by changing the Data value.

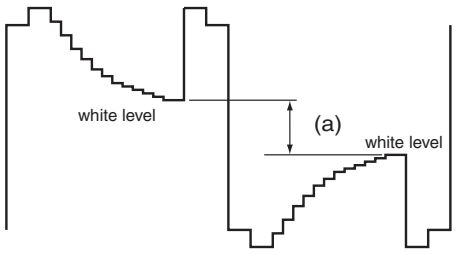


6 Common Center adjustment

1. Receive the 50%-Whole Gray computer signal with **Input1 [RGB]** mode.
2. Enter the service mode.
3. Select group no. "**100**", item no. "**92**" and change data value to "**2**" to reduce the panel frequency.
4. Project only red light component to the screen.
5. Select group no. "**101**", item no. "**0**" and change data value to obtain the minimum flicker on the screen.
6. Project only green light component to the screen.
7. Select item no. "**1**" and change data value to obtain the minimum flicker on the screen.
8. Project only blue light component to the screen.
9. Select item no. "**2** and change data value to obtain the minimum flicker on the screen.
10. Select group no. "**100**", item no. "**92**" and change data value to "**0**" to reset the panel frequency.

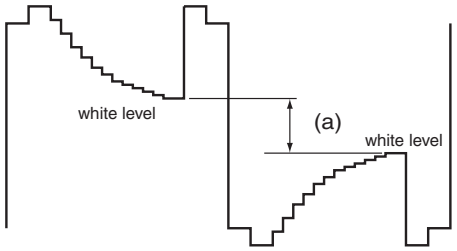
7 50% luminance adjustment [PC]

1. Receive the 16-step grey scale computer signal with **Computer1 [RGB]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "**TP35G**" (+) and chassis ground (-).
4. Select group no. "**100**", item no. "**6**" and change data value to adjust amplitude "**a**" to be **1.1 ±0.1V**.



8 50% luminance adjustment [Video]

1. Receive the 100%whole-white composite video signal with **Input3 [Video]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "**TP35G**" (+) and chassis ground (-).
4. Select group no. "**100**", item no. "**6**" and change data value to adjust amplitude "**a**" to be **2.2 ±0.1V**.



9 White Balance adjustment [PC]

1. Receive the 16-step gray scale computer signal with **Computer1 [RGB]** mode.
2. Enter the service mode, select group no. "**100**" item no. "**7**" (Red) or "**8**" (Blue), and change Data values respectively to make a proper white balance.

Confirm that the same white balance is obtained in video and computer input.

10 White Balance adjustment [Video]

1. Receive the 16-step grey scale composite video signal with **Video** mode.
2. Enter the service mode, select group no. "**100**" item no. "**7**" (Red) or "**8**" (Blue), and change Data values respectively to make a proper white balance.

Confirm that the same white balance is obtained in video and computer input.

11 White Uniformity Adjustment

If you find the color shading on the screen, please adjust the white uniformity by using the proper computer and "Color Shading Correction" software supplied separately.

The software can be ordered as follows;

COLOR SHADING CORRECTION Ver. 4.00	
Service Parts No.	645 075 9611

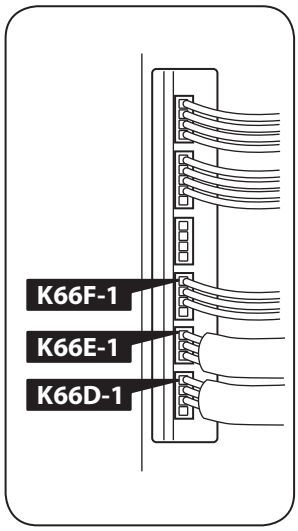
12 Filter Calibration adjustment

1. Enter the service mode, select group no. "**251**" and item no. "**0**" .
2. To start the adjustment, change data value from "**0**" to "**1**". After the auto-calbration completed, "OK" will appear on the screen.

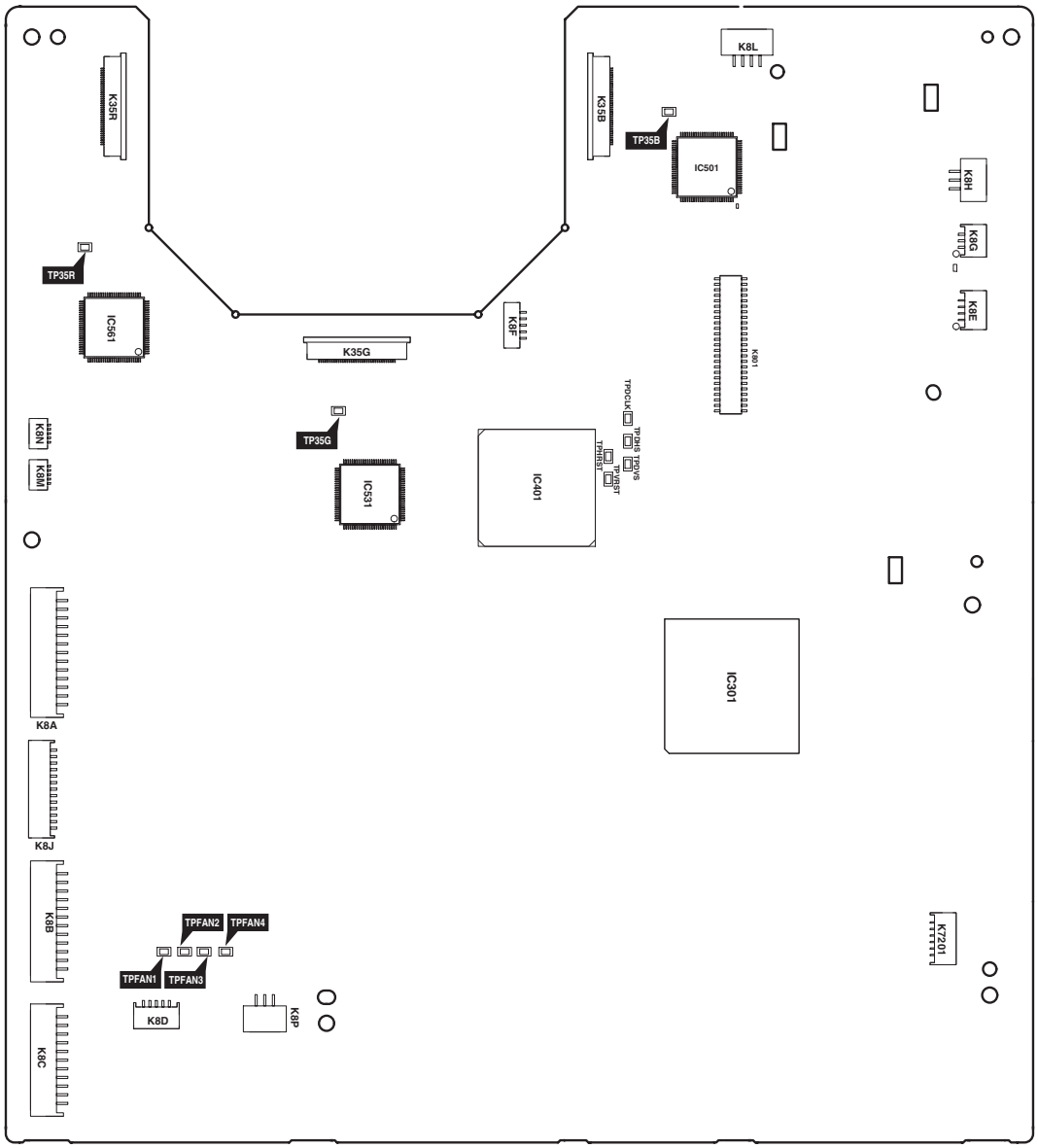
IMPORTANT
Before taking this adjustment, you need to replace the air filter with new one or clean up it and make sure the filter is securely installed.

Test Points and Locations

Top view around
POWER(DC) board



MAIN BOARD



Service Adjustment Data Table

These initial values are the reference data written from the CPU ROM to memory IC when replaced new memory IC. The adjustment items indicated with "*" are required to readjust following to the "Electrical adjustments". Other items should be used with the initial data value.

Group/ Item	Item Name	Function	Initial	Range	Note
Group 0	**AD Converter (PW190)**				
0	ADC G-OFFSET	PC	128	0 - 255	* G-Pedestal Adjustment
1	ADC R-OFFSET	PC	128	0 - 255	* R-Pedestal Adjustment
2	ADC B-OFFSET	PC	128	0 - 255	* B-Pedestal Adjustment
3	ADC G-GAIN	PC	50	0 - 255	* Gain Adjustment [PC]
4	ADC R-GAIN	PC	40	0 - 255	* Gain Adjustment [PC]
5	ADC B-GAIN	PC	40	0 - 255	* Gain Adjustment [PC]
6	GRAAFLTR/RBAAFLTR	Green (Red and Blue) Anti-Alias Filter	4 / R / R	0 - 7	
7	GRNAADWNSMPL / RBAADWNSMPL	Green (Red and Blue) Anti-Alias Downsample	0 / R / R	0 - 3	Composite & S-Video / Component / PC *R: Read only value
8	GRNAAHF / RBAAHF	Green (Red and Blue) Anti-Alias High Frequency	3 / R / R	0 - 3	
10	SOGTH	PC SyncOn Green Threhould	4	0 - 15	
11	SOGHYSDIS	PC Sync On Green Hsysterisis Enable	0	0 - 1	
12	HS1TH		4	0 - 7	
13	HS0TH		4	0 - 7	
100	PreCoast PC Signal		3	0 - 63	
101	PostCoast PC Signal		8	0 - 63	
120	PreCoast PC Video 480i		7	0 - 63	
121	PostCoast PC Video 480i		13	0 - 63	
122	PreCoast PC Video 575i		7	0 - 63	
123	PostCoast PC Video 575i		13	0 - 63	
124	PreCoast PC Video 480p		7	0 - 63	
125	PostCoast PC Video 480p		13	0 - 63	
126	PreCoast PC Video 575p		7	0 - 63	
127	PostCoast PC Video 575p		13	0 - 63	
128	PreCoast PC Video 720p 60Hz		7	0 - 63	
129	PostCoast PC Video 720p 60Hz		13	0 - 63	
130	PreCoast PC Video 720p 50Hz		7	0 - 63	
131	PostCoast PC Video 720p 50Hz		13	0 - 63	
132	PreCoast PC Video 1080i 60Hz		7	0 - 63	
133	PostCoast PC Video 1080i 60Hz		13	0 - 63	
134	PreCoast PC Video 1080i 50Hz		7	0 - 63	
135	PostCoast PC Video 1080i 50Hz		13	0 - 63	
136	PreCoast PC Video 1035i		7	0 - 63	
137	PostCoast PC Video 1035i		13	0 - 63	
138	PreCoast PC Video 1080p 60Hz		7	0 - 63	
139	PostCoast PC Video 1080p 60Hz		13	0 - 63	
140	PreCoast PC Video 1080p 50Hz		7	0 - 63	
141	PostCoast PC Video 1080p 50Hz		13	0 - 63	
142	PreCoast PC Video 1080p 30Hz		7	0 - 63	
143	PostCoast PC Video 1080p 30Hz		13	0 - 63	
144	PreCoast PC Video 1080p 25Hz		7	0 - 63	
145	PostCoast PC Video 1080p 25Hz		13	0 - 63	
146	PreCoast PC Video 1080p 24Hz		7	0 - 63	
147	PostCoast PC Video 1080p 24Hz		13	0 - 63	
150	PreCoast YCbCr 480i		7	0 - 63	
151	PostCoast YCbCr 480i		13	0 - 63	
152	PreCoast YCbCr 575i		7	0 - 63	
153	PostCoast YCbCr 575i		13	0 - 63	
154	PreCoast YCbCr 480p		7	0 - 63	
155	PostCoast YCbCr 480p		13	0 - 63	
156	PreCoast YCbCr 575p		7	0 - 63	
157	PostCoast YCbCr 575p		13	0 - 63	
158	PreCoast YCbCr 720p 60Hz		7	0 - 63	
159	PostCoast YCbCr 720p 60Hz		13	0 - 63	
160	PreCoast YCbCr 720p 50Hz		7	0 - 63	
161	PostCoast YCbCr 720p 50Hz		13	0 - 63	

Group/ Item	Item Name	Function	Initial	Range	Note
162	PreCoast YCbCr 1080i 60Hz		7	0 - 63	
163	PostCoast YCbCr 1080i 60Hz		13	0 - 63	
164	PreCoast YCbCr 1080i 50Hz		7	0 - 63	
165	PostCoast YCbCr 1080i 50Hz		13	0 - 63	
166	PreCoast YCbCr 1035i		7	0 - 63	
167	PostCoast YCbCr 1035i		13	0 - 63	
180	PreCoast SCART 480i		7	0 - 63	
181	PostCoast SCART 480i		13	0 - 63	
182	PreCoast SCART 575i		7	0 - 63	
183	PostCoast SCART 575i		13	0 - 63	
Group 10	**Sync Processor**				
0	SYNCAMPHLCKTOLOW	Minimum sync amplitude threshold for HLCK 1 to 0 tansition	0x1000	0 - 9999	
1	SYNCAMPHLCKTOHI	Minimum sync amplitude threshold for HLCK 0 to 1 tansition	0x700	0 - 9999	
Group 20	**Video Decoder**				*R : Read Only Value
0	Component Y level	Component-Scaart Input Gain Adj. Group 01: <YCbCr>1080i-60, 1080i-50, 1035i Group 02: <YCbCr>720p-60, 720p-60 Group 03: <YCbCr>480p, 575p Group 04: <YCbCr>480i, 575i Group 05: <Scard>480i, 575i *Link with G-04	118 118 118 118 134	0 - 255	* Gain adjustment [480i]
1	Component C level	Component-Scart Input Gain Adj. Group 01: <YCbCr>1080i-60, 1080i-50, 1035i Group 02: <YCbCr>720p-60, 720p-60 Group 03: <YCbCr>480p, 575p Group 04: <YCbCr>480i, 575i Group 05: <Scard>480i, 575i *Link with G-04	110 110 127 134 150	0 - 255	
2	CVBS Y Level	CVBS/Y Input Gain Adj.	162 / 163	0 - 255	Composite / S-Video * Gain adjustment [Video]
3	CVBS C Level	C Input Gain Adj.	115 / 127	0 - 255	Composite / S-Video
4	Sub Hue	CVBS/S Input NTSC Tint Adj.	32	0 - 63	
5	HS Slice level	H Sync Slice Level	4	0 - 15	
6	HS Slice Offset	Offset to H Sync Slice Level Group 01: <YCbCr>480i, 575i Group 02: <YCbCr>480p, 575p Group 03: <YCbCr>720p Group 04: <YCbCr> 1080i Group 05: Others	5 5 4 3 5	0 - 15	
7	VS Slice Level	V Sync Slice Level	6	0 - 15	
8	VS Slice Offset	Offset to VS Slice Level	6	0 - 15	
9	Sampling Phase	A/D Clock Phase	0	0 - 63	
10	Pre Shoot Level	Sub Sharpness	8	0 - 15	
11	Over Shoot Level	Sub Sharpness	8	0 - 15	
12	Y Filter	Y Filter Band Setting Group 01: Composite, S-Video Group 02: 480i, 575i, 480o, 575p Group 03: 720p-60, 720p-50, 1035i, 1080i-60, 1080i-50	5 5 6	0 - 7	
13	C Filter	C Filter Band Setting Group 01: Composite, S-Video Group 02: 480i, 575i, 480o, 575p Group 03: 720p-60, 720p-50, 1035i, 1080i-60, 1080i-50	5 5 6	0 - 7	
14	NTSC/PAL Detect	NTSC/PAL Detection Threshold Setting 0: 64H/1V - PAL Strong 1: 96H/1V 2: 128H/1V 3: 160H/1V - PAL Weak	2	0 - 3	
Group 40	**General**				
0	IP Mode	Sets for IP Off	1	0 - 1	0: IP Block not used 1: IP OFF used with IP Block
1	3:2 PullDown Mode		1	1 - 3	bit0 : Global Motion bit1 : Video Motion
2	Detect Film Mode Enable		0	0 - 2	0 : 2:3pull down & 2:2pull down 1 : 2:3pull down 2 : 2:2pull down
3	Force IP Mode		2	0 - 2	0 : IP Process Disable 1 : Force Normal IP Mode 2 : Force Film Mode Effective only for PSF Signal.
Group 41	**Deinterlacer setting** Effective only for Progressive ON-L1 mode.				
0	Motion Adaptive Weight Value	<KDEINT>	30	0 - 255	
1	Angle Interpolation Level	0 : Conservative <====> 4 : Aggressive	4	0 - 4	
2	CUE Low Pass Filter Enable	<CUELPFEN>	0	0 - 1	

Group/ Item	Item Name	Function	Initial	Range	Note
Group 42	**Deinterlacer setting** Effective only for Progressive ON-L2 mode.				
0	Motion Adaptive Weight Value	<KDEINT>	0	0 - 255	
1	Angle Interpolation Level	0 : Conservative <====> 4 : Aggressive	2	0 - 4	
2	CUE Low Pass Filter Enable	<CUELPFEN>	0	0 - 1	
Group 43	**Deinterlacer setting** Effective only for Progressive ON/Film mode.				
0	Motion Adaptive Weight Value	<KDEINT>	30	0 - 255	
1	Angle Interpolation Level	0 : Conservative <====> 4 : Aggressive	4	0 - 4	
2	CUE Low Pass Filter Enable	<CUELPFEN>	0	0 - 1	
Group 45	**Noise Reduction (Time)** Effective only for N.R: Off				
0	Noise Pixel Range	<NSRANGEY> / <NSRANGEUV>	1	0 - 2	
1	Noise Region 0	<NSREGIONY0> / <NSREGIONUV0>	12	0 - 1023	
2	Noise Region 1	<NSREGIONY1> / <NSREGIONUV1>	24	0 - 1023	
3	Noise Region 2	<NSREGIONY2> / <NSREGIONUV2>	40	0 - 1023	
4	Noise Gain Level	<NSFILTERY**> / <NSFILTERUV**>	0	0 - 255	
Group 47	**Noise Reduction (Time)** Effective only for N.R L1				
0	Noise Pixel Range	<NSRANGEY> / <NSRANGEUV>	1	0 - 2	
1	Noise Region 0	<NSREGIONY0> / <NSREGIONUV0>	12	0 - 1023	
2	Noise Region 1	<NSREGIONY1> / <NSREGIONUV1>	24	0 - 1023	
3	Noise Region 2	<NSREGIONY2> / <NSREGIONUV2>	40	0 - 1023	
4	Noise Gain Level	<NSFILTERY**> / <NSFILTERUV**>	50	0 - 255	
Group 49	**Noise Reduction (Time)** Effective only for N.R L2				
0	Noise Pixel Range	<NSRANGEY> / <NSRANGEUV>	1	0 - 2	
1	Noise Region 0	<NSREGIONY0> / <NSREGIONUV0>	12	0 - 1023	
2	Noise Region 1	<NSREGIONY1> / <NSREGIONUV1>	24	0 - 1023	
3	Noise Region 2	<NSREGIONY2> / <NSREGIONUV2>	40	0 - 1023	
4	Noise Gain Level	<NSFILTERY**> / <NSFILTERUV**>	100	0 - 255	
Group 50	**2:2pull down setting**				
0	22Film Mode Sensitivity	Film Detection Sensitivity <FILMSTVT22>	4	1 - 5	
1	22Film Mode Threshold Low	<FILMTHRD22A>	80	0 - 32767	
2	22Film Mode Threshold High	<FILMTHRD22B>	120	0 - 32767	
3	VOFTHR13	<VOFTHR13>	124	0 - 1023	* Read only
4	VOFTHR12	<VOFTHR12>	124	0 - 1023	* Read only
5	VOFTHR23	<VOFTHR23>	124	0 - 1023	* Read only
6	Video Motion Window Start X	<VOFSTARX>	10	0 - 2047	Range of detective for Film mode
7	Video Motion Window Stop X	<VOFSTOPX>	10	0 - 2047	Range of detective for Film mode
8	Video Motion Window Start Y	<VOFSTARY>	10	0 - 1023	Range of detective for Film mode
9	Video Motion Window Stop Y	<VOFSTOPY>	10	0 - 1023	Range of detective for Film mode
Group 51	**2:3pull down setting**				
0	Global Motion Sensitivity	Film Detection Sensitivity <FILMSTVT23>	4	1 - 5	
1	Video Motion Sensitivity	Film Detection Sensitivity <VOFSTVT>	4	1 - 5	
2	Video Motion Threshold Low	<VOFTHRDA>	120	0 - 32767	
3	Video Motion Threshold High	<VOFTHRDB>	180	0 - 32767	
4	Global Motion Threshold	<GMDTHRD>	124	0 - 1024	* Read only
5	23Film Mode Threshold	<FILMTHRD23>	100	0 - 32767	
6	Global Motion Window Start X	<GMDSTARX>	10	0 - 2047	Range of detective for Film mode
7	Global Motion Window Stop X	<GMDSTOPX>	10	0 - 2047	Range of detective for Film mode
8	Global Motion Window Start Y	<GMDSTARY>	10	0 - 1023	Range of detective for Film mode
9	Global Motion Window Stop Y	<GMDSTOPY>	10	0 - 1023	Range of detective for Film mode
Group 55	*** Not used**				
Group 60	**Image**				
0	Center Contrast		578/578/534/534/492/492	0 - 1023	
1	Center Brightness		512/512/512/500/512/512	0 - 1023	Video(S-Video) / Component / SCART / ANALOG / DIGITAL / HDCP
2	Center Color		512/534/512/512/512/512	0 - 1023	Setting Value=
3	Center Tint		90/90/90/90/90/90	0-180	(MENU Value - MENU Center Value) x Alpha / 10 + Center
4	Center Sharpness		16/16/16/16/16/16	Fixed 16	[Setting Value to PW]
5	Alpha Contrast		40/40/40/40/40/40	0-1000	Contrast [Max] 1023 [Min] 0
6	Alpha Brightness		140/140/140/140/140/140	0-1000	Brightness [Max] 1023 [Min] 0
7	Alpha Color		160/160/160/160/160/160	0-1000	Color [Max] 1023 [Min] 0
8	Alpha Tint		10/10/10/10/10/10	0-1000	Tint [Max] 180 [Min] 0
9	Alpha Sharpness		10/10/10/10/10/10	0-1000	Sharpness [Max] 57 [Min] 0

Group/ Item	Item Name	Function	Initial	Range	Note
Group 100	**Panel Service**				
0	G-SubGain		2048/2096/1940/1940/2048/2096/1940 /1940	0-4095	
1	R-SubGain		2048/2096/1940/2140/2048/2096/1940 /2140	0-4095	PCStandard/PCDynamic/PCReal/PCBlack-Board/AVStandard/AVDynamic/AVCinema/ AVBlackBoard
2	B-SubGain		2048/2096/1940/1940/2048/2096/1940 /1940	0-4095	
3	G-SubBright		2048/2048/2048/2112/2048/2048/2048 /2112	0-4095	
4	R-SubBright		2048/2048/2048/2112/2048/2048/2048 /2112	0-4095	PCStandard/PCDynamic/PCReal/PCBlack-Board/AVStandard/AVDynamic/AVCinema/ AVBlackBoard
5	B-SubBright		2048/2048/2048/2112/2048/2048/2048 /2112	0-4095	
6	G-GammaShift		2048/2048	0-4095	PC/AV * 50% white adjustment Center=512 R] and [B] are linked with [G]
7	R-GammaShift		2048/2048	0-4095	* While balance adjustment
8	B-GammaShift		2048/2048	0-4095	* While balance adjustment
9	G-ReferH		3584/3584	0-4095	[R] and [B] are linked with [G] Scan Direction (Front/Rear)
10	G-ReferL		848/848	0-4095	[R] and [B] are linked with [G] Scan Direction (Front/Rear)
11	R-ReferH		3584/3584	0-4095	Scan Direction (Front/Rear)
12	R-ReferL		848/848	0-4095	Scan Direction (Front/Rear)
13	B-ReferH		3584/3584	0-4095	Scan Direction (Front/Rear)
14	B-ReferL		848/848	0-4095	Scan Direction (Front/Rear)
15	DXOutR		248	0-1023	
16	DXOutG		248	0-1023	
17	DXOutB		248	0-1023	
18	H_Change_Pos		25	0-255	
19	SH_Base		1092	0-4095	
20	NRG_Pos		53	0-127	
21	NRG_Width		54	0-255	
22	OSD_Pos		2	0-3	
23	OSD_Ptn		0	0-9	
24	GammaCtrl				* Not used
25	REF_GatePos		8	0-1023	
26	REF_GateDur		197	0-1023	
27	R-BasePos		6	0-15	
28	G-BasePos		6	0-15	
29	B-BasePos		6	0-15	
30	RGB-Adjust		0	0-7	
31	RGB-AdjLv		0	0-4095	Operation STEP=512[0<->512<->1024<->1536<->2048<->2560<->3072<->3584<->4095]
32	LineR0		0	0-1023	(MIN<-->MAX Cyclic Operation)
33	LineR1		0	0-1023	(MIN<-->MAX Cyclic Operation)
34	LineR2		0	0-1023	(MIN<-->MAX Cyclic Operation)
35	LineR3		0	0-1023	(MIN<-->MAX Cyclic Operation)
36	LineR4		0	0-1023	(MIN<-->MAX Cyclic Operation)
37	LineG0		0	0-1023	(MIN<-->MAX Cyclic Operation)
38	LineG1		0	0-1023	(MIN<-->MAX Cyclic Operation)
39	LineG2		0	0-1023	(MIN<-->MAX Cyclic Operation)
40	LineG3		0	0-1023	(MIN<-->MAX Cyclic Operation)
41	LineG4		0	0-1023	(MIN<-->MAX Cyclic Operation)
42	LineB0		0	0-1023	(MIN<-->MAX Cyclic Operation)
43	LineB1		0	0-1023	(MIN<-->MAX Cyclic Operation)
44	LineB2		0	0-1023	(MIN<-->MAX Cyclic Operation)
45	LineB3		0	0-1023	(MIN<-->MAX Cyclic Operation)
46	LineB4		0	0-1023	(MIN<-->MAX Cyclic Operation)
47	GhostR-Pos		3	0-31	
48	GhostG-Pos		3	0-31	
49	GhostB-Pos		3	0-31	
50	GhostR-Cent		0	0-2047	(MIN<-->MAX Cyclic Operation)
51	GhostR-Start		128	0-255	
52	GhostR-End		128	0-255	
53	GhostG-Cent		0	0-2047	(MIN<-->MAX Cyclic Operation)
54	GhostG-Start		128	0-255	
55	GhostG-End		128	0-255	
56	GhostB-Cent		0	0-2047	(MIN<-->MAX Cyclic Operation)
57	GhostB-Start		128	0-255	
58	GhostB-End		128	0-255	
59	BlockR1		0	0-2047	(MIN<-->MAX Cyclic Operation)
60	BlockG1		0	0-2047	(MIN<-->MAX Cyclic Operation)

Group/ Item	Item Name	Function	Initial	Range	Note
61	BlockB1		0	0-2047	(MIN<-->MAX Cyclic Operation)
62	BlockR2		0	0-2047	(MIN<-->MAX Cyclic Operation)
63	BlockG2		0	0-2047	(MIN<-->MAX Cyclic Operation)
64	BlockB2		0	0-2047	(MIN<-->MAX Cyclic Operation)
65	ReverceR		0	0-2047	(MIN<-->MAX Cyclic Operation)
66	ReverceG		0	0-2047	(MIN<-->MAX Cyclic Operation)
67	ReverceB		0	0-2047	(MIN<-->MAX Cyclic Operation)
68	BackCrossR-Cent		0	0-2047	(MIN<-->MAX Cyclic Operation)
69	BackCrossR-Start		128	0-255	(MIN<-->MAX Cyclic Operation)
70	BackCrossR-End		128	0-255	
71	BackCrossG-Cent		0	0-2047	(MIN<-->MAX Cyclic Operation)
72	BackCrossG-Start		128	0-255	
73	BackCrossG-End		128	0-255	
74	BackCrossBR-Cent		0	0-2047	(MIN<-->MAX Cyclic Operation)
75	BackCrossB-Start		128	0-255	
76	BackCrossB-End		128	0-255	
77	ColshdSelect		1	0-1	
78	R-Min		370	0-1023	
79	R-Mid2		469	0-1023	
80	R-Mid1		570	0-1023	
81	R-Max		665	0-1023	
82	G-Min		370	0-1023	
83	G-Mid2		469	0-1023	
84	G-Mid1		570	0-1023	
85	G-Max		665	0-1023	
86	B-Min		370	0-1023	
87	B-Mid2		469	0-1023	
88	B-Mid1		570	0-1023	
89	B-Max		665	0-1023	
90	H-OutPos		112	0-2047	
91	OutAreaLv		0	0-1023	
92	FlickerAdj		0	0/2	not used
93	FRC_Bit		3	0-3	
94	FrontCTalkR-Cent		0	0-2047	(MIN<-->MAX Cyclic Operation)
95	FrontCTalkR-Start		128	0-255	
96	FrontCTalkR-End		128	0-255	
97	FrontCTalkG-Cent		0	0-2047	(MIN<-->MAX Cyclic Operation)
98	FrontCTalkG-Start		128	0-255	
99	FrontCTalkG-End		128	0-255	
100	FrontCTalkB-Cent		0	0-2047	(MIN<-->MAX Cyclic Operation)
101	FrontCTalkB-Start		128	0-255	
102	FrontCTalkB-End		128	0-255	
103	R-DCOffset-NGain		0/0	0-1023	Scan Direction (Front/Rear) (MIN<-->MAX Cyclic Operation)
104	R-DCOffset-N1		80/80	0-2047	(MIN<-->MAX Cyclic Operation)
105	R-DCOffset-N2		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
106	R-DCOffset-N3		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
107	R-DCOffset-N4		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
108	R-DCOffset-N5		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
109	R-DCOffset-N6		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
110	R-DCOffset-N7		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
111	R-DCOffset-N8		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
112	R-DCOffset-N9		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
113	R-DCOffset-N10		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
114	R-DCOffset-N11		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
115	R-DCOffset-N12		2000/2000	0-2047	(MIN<-->MAX Cyclic Operation)
116	G-DCOffset-NGain		0/0	0-1023	(MIN<-->MAX Cyclic Operation)
117	G-DCOffset-N1		80/80	0-2047	(MIN<-->MAX Cyclic Operation)
118	G-DCOffset-N2		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
119	G-DCOffset-N3		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
120	G-DCOffset-N4		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
121	G-DCOffset-N5		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
122	G-DCOffset-N6		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
123	G-DCOffset-N7		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
124	G-DCOffset-N8		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
125	G-DCOffset-N9		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
126	G-DCOffset-N10		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
127	G-DCOffset-N11		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
128	G-DCOffset-N12		2000/2000	0-2047	(MIN<-->MAX Cyclic Operation)
129	B-DCOffset-NGain		0/0	0-1023	(MIN<-->MAX Cyclic Operation)

Group/ Item	Item Name	Function	Initial	Range	Note
130	B-DCOffset-N1		80/80	0-2047	(MIN<-->MAX Cyclic Operation)
131	B-DCOffset-N2		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
132	B-DCOffset-N3		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
133	B-DCOffset-N4		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
134	B-DCOffset-N5		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
135	B-DCOffset-N6		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
136	B-DCOffset-N7		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
137	B-DCOffset-N8		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
138	B-DCOffset-N9		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
139	B-DCOffset-N10		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
140	B-DCOffset-N11		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
141	B-DCOffset-N12		2000/2000	0-2047	(MIN<-->MAX Cyclic Operation)
142	R-DCOffset-PGain		0/0	0-1023	(MIN<-->MAX Cyclic Operation)
143	R-DCOffset-P1		2004/2004	0-2047	(MIN<-->MAX Cyclic Operation)
144	R-DCOffset-P2		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
145	R-DCOffset-P3		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
146	R-DCOffset-P4		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
147	R-DCOffset-P5		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
148	R-DCOffset-P6		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
149	R-DCOffset-P7		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
150	R-DCOffset-P8		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
151	R-DCOffset-P9		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
152	R-DCOffset-P10		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
153	R-DCOffset-P11		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
154	R-DCOffset-P12		48/48	0-2047	(MIN<-->MAX Cyclic Operation)
155	G-DCOffset-PGain		0/0	0-1023	(MIN<-->MAX Cyclic Operation)
156	G-DCOffset-P1		2004/2004	0-2047	(MIN<-->MAX Cyclic Operation)
157	G-DCOffset-P2		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
158	G-DCOffset-P3		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
159	G-DCOffset-P4		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
160	G-DCOffset-P5		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
161	G-DCOffset-P6		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
162	G-DCOffset-P7		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
163	G-DCOffset-P8		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
164	G-DCOffset-P9		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
165	G-DCOffset-P10		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
166	G-DCOffset-P11		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
167	G-DCOffset-P12		48/48	0-2047	(MIN<-->MAX Cyclic Operation)
168	B-DCOffset-PGain		0/0	0-1023	(MIN<-->MAX Cyclic Operation)
169	B-DCOffset-P1		2004/2004	0-2047	(MIN<-->MAX Cyclic Operation)
170	B-DCOffset-P2		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
171	B-DCOffset-P3		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
172	B-DCOffset-P4		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
173	B-DCOffset-P5		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
174	B-DCOffset-P6		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
175	B-DCOffset-P7		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
176	B-DCOffset-P8		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
177	B-DCOffset-P9		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
178	B-DCOffset-P10		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
179	B-DCOffset-P11		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
180	B-DCOffset-P12		48/48	0-2047	Scan Direction (Front/Rear) (MIN<-->MAX Cyclic Operation)
181	ENBX-R		0	0-127	
182	ENBX-G		0	0-127	
183	ENBX-B		0	0-127	
184	DXOutPos		0	0-1	
185	R_V_INPUT_STEP_0		36	0-1023	(MIN<-->MAX Cyclic Operation)
186	R_V_INPUT_STEP_512		28	0-1023	(MIN<-->MAX Cyclic Operation)
187	R_V_INPUT_STEP_1024		24	0-1023	(MIN<-->MAX Cyclic Operation)
188	R_V_INPUT_STEP_1536		16	0-1023	(MIN<-->MAX Cyclic Operation)
189	R_V_INPUT_STEP_2048		8	0-1023	(MIN<-->MAX Cyclic Operation)
190	R_V_INPUT_STEP_2560		0	0-1023	(MIN<-->MAX Cyclic Operation)
191	R_V_INPUT_STEP_3072		1019	0-1023	(MIN<-->MAX Cyclic Operation)
192	R_V_INPUT_STEP_3584		0	0-1023	(MIN<-->MAX Cyclic Operation)
193	R_V_INPUT_STEP_4096		0	0-1023	(MIN<-->MAX Cyclic Operation)
194	G_V_INPUT_STEP_0		36	0-1023	(MIN<-->MAX Cyclic Operation)
195	G_V_INPUT_STEP_512		28	0-1023	(MIN<-->MAX Cyclic Operation)
196	G_V_INPUT_STEP_1024		24	0-1023	(MIN<-->MAX Cyclic Operation)
197	G_V_INPUT_STEP_1536		16	0-1023	(MIN<-->MAX Cyclic Operation)

Group/ Item	Item Name	Function	Initial	Range	Note
198	G_V_INPUT_STEP_2048		8	0-1023	(MIN<-->MAX Cyclic Operation)
199	G_V_INPUT_STEP_2560		0	0-1023	(MIN<-->MAX Cyclic Operation)
200	G_V_INPUT_STEP_3072		1019	0-1023	(MIN<-->MAX Cyclic Operation)
201	G_V_INPUT_STEP_3584		0	0-1023	(MIN<-->MAX Cyclic Operation)
202	G_V_INPUT_STEP_4096		0	0-1023	(MIN<-->MAX Cyclic Operation)
203	B_V_INPUT_STEP_0		36	0-1023	(MIN<-->MAX Cyclic Operation)
204	B_V_INPUT_STEP_512		28	0-1023	(MIN<-->MAX Cyclic Operation)
205	B_V_INPUT_STEP_1024		24	0-1023	(MIN<-->MAX Cyclic Operation)
206	B_V_INPUT_STEP_1536		16	0-1023	(MIN<-->MAX Cyclic Operation)
207	B_V_INPUT_STEP_2048		8	0-1023	(MIN<-->MAX Cyclic Operation)
208	B_V_INPUT_STEP_2560		0	0-1023	(MIN<-->MAX Cyclic Operation)
209	B_V_INPUT_STEP_3072		1019	0-1023	(MIN<-->MAX Cyclic Operation)
210	B_V_INPUT_STEP_3584		0	0-1023	(MIN<-->MAX Cyclic Operation)
211	B_V_INPUT_STEP_4096		0	0-1023	(MIN<-->MAX Cyclic Operation)
212	FRPPOL		84	0-4095	
213	FRP_POS		18	0-255	
214	SWAP		1285	0-2047	
215	PRE_COLSHD_SEL		0	0-255	
216	HSYNC_FOLLOW		1	0-1	
217	DELAY_HSYNC		30	0-2047	
218	DELAY_VSYNC		16	0-255	
219	VSYNC_FOLLOW		0	0-1	
220	BLANK_RCENTER		0	0-2047	(MIN<-->MAX Cyclic Operation)
221	BLANK_RSTART		128	0-255	
222	BLANK_REND		128	0-255	
223	BLANK_GCENTER		0	0-2047	(MIN<-->MAX Cyclic Operation)
224	BLANK_GSTART		128	0-255	
225	BLANK_GEND		128	0-255	
226	BLANK_BCENTER		0	0-2047	(MIN<-->MAX Cyclic Operation)
227	BLANK_BSTART		128	0-255	
228	BLANK_BEND		128	0-255	
229	DATA LIMIT_MAX_R		4095	0-4095	
230	DATA LIMIT_MAX_G		4095	0-4095	
231	DATA LIMIT_MAX_B		4095	0-4095	
Group 101	**Panel Service(6150/1060)**				
0	R-LCCOM		340	0-511	* R-Common center adjustment
1	G-LCCOM		340	0-511	* G-Common center adjustment
2	B-LCCOM		340	0-511	* B-Common center adjustment
3	R-LCCOM-Gain		193	0-255	
4	G-LCCOM-Gain		193	0-255	
5	B-LCCOM-Gain		193	0-255	
6	R-LCCOM-Bright		0	0-255	
7	G-LCCOM-Bright		0	0-255	
8	B-LCCOM-Bright		0	0-255	
9	R-LCCOM-Cent		18	0-63	
10	G-LCCOM-Cent		18	0-63	
11	B-LCCOM-Cent		18	0-63	
12	R-ENBX-PW		10	0-127	
13	G-ENBX-PW		10	0-127	
14	B-ENBX-PW		10	0-127	
15	R-DXIN		22	0-255	Link with No.18
16	G-DXIN		22	0-255	Link with No.19
17	B-DXIN		22	0-255	Link with No.20
18	R-CLXIN		22	0-255	Link with No.15
19	G-CLXIN		22	0-255	Link with No.16
20	B-CLXIN		12	0-255	Link with No.17
21	R-ENBX1IN		17	0-255	
22	G-ENBX1IN		17	0-255	
23	B-ENBX1IN		17	0-255	
Group 110	*** Not used**				
Group 200	**Option**				
0	Logo Prohibition (Forced No Brand)	Logo Prohibition (0: Menu, 1: Forced, 2: China, 3-9: not used)	0	0 - 2	Effective after AC On
1	RS232C Baudrate	Baud Rate	0	0 - 2	0: 19200bps, 1: 9600bps, 2: 115200bps
2	PJLink Enable				* Not used

Electrical Adjustment

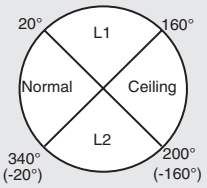
Group/ Item	Item Name	Function	Initial	Range	Note
3	Shipping Setting		0	0 - 20	Default set when the value is set to 10.
4	CABLE SW	Long Cable			* Not used
5	PW Debug Command Enable		0	0 - 1	0:Disable (Serial Command Eanble) 1: Enable (PW Debug Mode)
6	Device Refresh Disable		0	0 - 1	0:Enable, 1:Disable No last memory
7	Device Access Disable		0	0 - 1	0:Enable (Normal), 1:Disable No last memory
8	PJ-Net HangUp Check		0	0 - 1	0: Enable, 1: Disable
9					* Not used
10					* Not used
11					* Not used
12					* Not used
13					* Not used
14					* Not used
15					* Not used
20	Projector Time Reset		0	0 - 20	Projector Time is cleared when the value is set to 10.
21	Lamp Warning Time (NORMAL)	Lamp Life at Normal Mode (Warning Time at Normal)		500 - 8000	
22	Lamp Warning Time (ECO)	Lamp Life at Eco Mode (Warning Time at Eco)		500 - 8000	
23	Lamp Warning Time (HIGH)	Lamp Life at Eco Mode (Warning Time at High)		500 - 8000	
30	Lamp life test enable				0:Disable 1:Enable, for safety test only
31	Lmap On time(for life test)	For test purpose			
32	Lamp Off time(for life test)	For test purpose			
33	Lamp total time(for life test)	For test purpose			
50	Lamp Replacement Display	Lamp Warning Display On/Off	1	0 - 1	0: Off, 1: On
51	Filter Warning Display	Filter Warning Display On/Off	1	0 - 1	0: Off, 1: On
52	Lamp counter Reset Times	Reset Times of Lamp Counter	0	0 - 255	* Read only
53	Filter Counter Reset times	Reset Times of Filter Counter	0	0 - 255	* Read only
54	Factory Default Execute Times	Reset Times of Factory Default Set	0	0 - 255	* Read only
55	Motor Stop	Motor Stop 0: Enable, 1: Disable	0	0 - 1	
56	Mouse Posiyion (X)	Offset Value of X axis	0	0 - 1024	
57	Mouse Position (Y)	Offset Value of Y axis	0	0 - 1024	
58	Lamp Go Out	Lamp go out	0	0 - 1	
80	Panel life test mode	Panel life test mode 0: Life test mode, 1: Normal	0	0 - 1	
Group 201	**Option (signal)**				
0	FrameLock Option		1	0 - 1	0: FrameLockOFF at PC signal 1: FrameLockON at PC signal and 47Hz (Vfreq) ~ Panel frequency of input signal
1					* Not used
2	Field Sense Invert Enable		0	0 - 1	Reverse Processing of FLDINVSetting Value 0: Disable - Used FLDINV Setting Value 1: Enable - Used Reversed FLDINV Setting Value
3					* Not used
4	Sub Image Enable		1	0 - 1	0:Disable (Service Adjustment Dsiable, Used all the Center Values 1:Enable (Service Adjustment Enable)
5					* Not used
6	Zoom Accelerator Enable		0	0 - 1	0:Zoom Accelerator OFF, 1:Zoom Accelerator ON No last memory
7	DZoom Reset by Keystone		0	0 - 1	0:Enable (Normal), 1:Disable (Dzoo is not cancelled even if Keystone is cancelled) No last memory
8	Stability Count	Count Value of V-missing	5	0 - 255	
9	Sensivity for Signal Lost (HSYNC)	Only used this value for No Signal Judgement(Hz)	350	0 - 32767	
10	Sensivity for Signal Lost (VSYNC)	Only used this value for No Signal Judgement(Line)	3	0 - 255	
11	Keystone Filter center value	Center value of Keystone Filter	16	0 - 30	
12					* Not used
13					* Not used
14					* Not used
15					* Not used
Group 205	**Spread Spectrum**				
0	Spread Spectrum Enable	0: Spectrum-on, 1: Spectrum-off	1	0 - 1	

Electrical Adjustment

Group/ Item	Item Name	Function	Initial	Range	Note
1	Spread Spectrum Frequency	200-500 Deviation Default:300 x 100Hz 30KHz Deviation when "300" is set	80	0 - 500	
2	Spread Spectrum Amplitude	0-300 Rate Default:100 ±0.5% Spectrum Rate when "100" is set	100	0 - 300	
Group 210	**LampContorl**				
0	Enable	Luminance Level 1 Data for Dimmer: Dim Level 1 at the less than the Value	7	0 - 255	
1	DIMMER_CTRL_LEVEL2	Luminance Level 2 Data for Dimmer: Dim Level 2 at the less than the Value	14	0 - 255	
2	DIMMER_CTRL_LEVEL3	Luminance Level 3 Data for Dimmer: Dim Level 3 at the less than the Value	21	0 - 255	
3	DIMMER_CTRL_LEVEL4	Luminance Level 4 Data for Dimmer: Dim Level 4 at the less than the Value	28	0 - 255	
4	DIMMER_CTRL_LEVEL5	Luminance Level 5 Data for Dimmer: Dim Level 5 at the less than the Value	35	0 - 255	
5	DIMMER_CTRL_LEVEL6	Luminance Level 6 Data for Dimmer: Dim Level 6 at the less than the Value	42	0 - 255	
6	DIMMER_CTRL_LEVEL7	Luminance Level 7 Data for Dimmer: Dim Level 7 at the less than the Value	49	0 - 255	
7	DIMMER_CTRL_LEVEL8	Luminance Level 8 Data for Dimmer: Dim Level 8 at the less than the Value	56	0 - 255	
8	DIMMER_CTRL_LEVEL9	Luminance Level 9 Data for Dimmer: Dim Level 9 at the less than the Value	63	0 - 255	
9	DIMMER_CTRL_LEVEL10	Luminance Level 10 Data for Dimmer: Dim Level 10 at the less than the Value	70	0 - 255	
10	DIMMER_CTRL_LEVEL11	Luminance Level 11 Data for Dimmer: Dim Level 11 at the less than the Value	77	0 - 255	
11	DIMMER_CTRL_LEVEL12	Luminance Level 12 Data for Dimmer: Dim Level 12 at the less than the Value	84	0 - 255	
12	DIMMER_CTRL_LEVEL13	Luminance Level 13 Data for Dimmer: Dim Level 13 at the less than the Value	91	0 - 255	
13	DIMMER_CTRL_LEVEL14	Luminance Level 14 Data for Dimmer: Dim Level 14 at the less than the Value	98	0 - 255	
14	DIMMER_CTRL_LEVEL15	Luminance Level 15 Data for Dimmer: Dim Level 15 at the less than the Value	105	0 - 255	
15	DIMMER_AVERAGE_POINT	Luminance Data Avarage Point for Mimmer	4	0 - 16	
16	DIMMER_AVERAGE_DATA	Luminance Data Avarage Value for Dimmer	-	-	* Read only
17	DIMMER_LEVEL_AUTO	Current Dimmer Leverl	-	-	* Read only
18	DIMMER_LEVEL_NORMAL	Normal Dimmer Level		0 - 14	
19	DIMMER_LEVEL_ECO	Eco Dimmer Level		0 - 14	
20	Lamp check enable			0 - 1	0: Lamp Failure Detection OFF (White 50% Back), 1 : ON (Blue 100% Back)
21	VOLTAGE_LEVEL	Lamp Voltage			Unit: 8bit(Raw Data) * Read only
22	DIMMER_LEVEL_HIGH	Dimmer Level HIGH		0 - 15	
Group 220	**Projector Error History * Refer to Error History Log**				
0	Warning_Log_1		0	0 ~ 32767	Latest error log
~	:		:	:	:
49	Warning_Log_50		0	0 ~ 32767	50th Error log
50	Warning_Log Reset		0	0 ~ 10	Projector Error Hisrory Log is creared when the value is set to "10".
Group 250	**Fan Voltage Adjustment**				
0	Fan1 Min Adjust (DAC)	Fan DAC Output Adjustment	60	0~255	* Fan voltage adjustment
1	Fan1 Max Adjust (DAC)	Adjust DAC-Fan Voltage tolelance	210	0~255	
2	Fan2 Min Adjust (DAC)	* Lamp Mode: Eco	60	0~255	
3	Fan2 Max Adjust (DAC)	(DACmax - DACmin) / (Volmax - Volmin) * Volnow - Volmin) + DACmin	210	0~255	
4	Fan3 Min Adjust (DAC)		60	0~255	
5	Fan3 Max Adjust (DAC)		210	0~255	
6	Fan4 Min Adjust				* Not used
7	Fan4 Max Adjust				* Not used
Group 251	**Fan Clogging Detection Setting**				
			Normal | Highland		
0	Filter Warning Calibration	Clogging Detect Auto Offset Adj. * OK Displayed after finished	0	0~1	* Filter calibration adjustment

Group/ Item	Item Name	Function	Initial		Range	Note
1	Filter Warning Offset Point 0	Fan Cloggle Detect Offset value. (Freq.) * The value is set automatially after Caribration	1731	1812	0000~9999	
2	Filter Warning Offset Point 1		2686	2818	0000~9999	
3	Filter Warning Offset Point 2		3456	3598	0000~9999	
4	Filter Warning Offset Point 3		4139	4288	0000~9999	
5	Filter Warning Offset Point 4		4728	4948	0000~9999	
6	Filter Warning Offset Point 5		5221	5522	0000~9999	
7	Filter Warning Offset Point 6		5607	5988	0000~9999	
8	Filter Warning Offset Point 7		5899	6332	0000~9999	
9	* Not used					
10	* Not used					
11	* Not used					
12	* Not used					
13	Filter Warning Time	Cloggle Det. Time(min)	3		0 - 10	
14	Fan-Add Filter Level 1	Additional Fan Freq. at Clogging Level1 (rpm)	1000		0000-9990	
15	Fan-Add Filter Level 2	Additional Fan Freq. at Clogging Level2 (rpm)	2000		0000-9990	
16	Filter Warning Calibration Range	Tolelance at Auto Adjustment (1:±5rpm 2:±10rpm 10:±50rpm)	1		0~10	
17	Filter Warning Calibration Time	Time to OK at Auto calibration (sec)	2		1~10	
18	Filter Warning Calibration Error Log	Log of Auto calibration (Read only) 0: No Error 100-111: Fan Min Adj Error 200~211: Out of Torelance 255: Auto calibration not Executed	255		0~255	
19	Filter Warning High Land Calibration Error Log	High Land Calibration Error Log (Read only) 0: No Error 50: Cancelling Adj. 100-111: Fan Min Adj Error 200~211: Out of Torelance 255: Auto calibration not Executed	255		0~255	
20	Filter Warning Calibration Temp	External Temp. at calibration execution(x10) *Read only	260	260	-	
21	Filter Warning Inclination Rpm (to 26°C)	Increase value of Threshold Rotation when Temp increase 10°C (Lower then 26°C Ext. temp)	80		0000-9999	
22	Filter Warning Inclination Rpm (over 26°C)	Increase value of Threshold Rotation when Temp increase 10°C (Higher then 26°C Ext. temp)	90		0000-9999	
23	Filter Warning Add Offset Rpm	Rotation correction due to Temp. *Read only	-		-	
Group 252	**Fan Option**					
0	Fan Max Switch	0:Normal 1:Max Fixed (13.5V) * HighLand Set is disable when setting Fan Max	0		0-5	
1	Safety Switch	Safety Exam FAN Control Switch (0:Normal, 1:High Min, 2:High Max, 3:Normal Min, 4:Normal Max, 5:Eco Min,6:Eco Max)	0		0~6	
2	Fan Manual Switch	Fan Manual SW (0:Auto 1:Mamual Adj)			0-3	
3	Fan1 Manual Voltage	Fan Voltage Manual Adj Mode (0.1V) * Effective only Fan Manual Switch = 1			0-255	
4	Fan2 Manual Voltage				0-255	
5	Fan3 Manual Voltage				0-255	
6	Fan4 Manual Set	PWM Duty Ratio Manual Adj Mode * Effective only Fan Manual Switch = 1			0-511	
7	DAC OUT Stability	DAC Output update period setting 1: every second, 2 sec, 3: 3sec.	2		0-10	

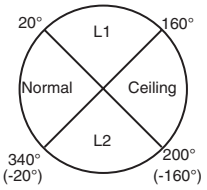
Group/ Item	Item Name	Function	Initial				Range	Note
Group 253	**Fan Tem Error Setting (Memorized)**		Normal	Ceiling	L1	L2		
0	Temp A Warning (High)	Temp. A to judge the Temp Error at High (Room)	43	43	43	43	30-100	
1	Temp B Warning (High)	Temp. A to judge the Temp Error at High (Lamp)	60	60	60	60	30-100	
2	Temp C Warning (High)	Temp. A to judge the Temp Error at High (Panel)	48	48	48	48	30-100	
3	Temp B-A Warning (High)	Temp. B-A to judge the Temp Error at High (Clogging Det.)	100	100	100	100	0-100	
4	Temp C-A Warning (High)	Temp. C-A to judge the Temp Error at High (Clogging Det.)	100	100	100	100	0-100	
5	Temp A Warning (Normal)	Temp. A to judge the Temp Error at Normal (Room)	43	43	43	43	30-100	
6	Temp B Warning (Normal)	Temp. A to judge the Temp Error at Normal (Lamp)	61	61	61	61	30-100	
7	Temp C Warning (Normal)	Temp. A to judge the Temp Error at Normal (Panel)	48	48	48	48	30-100	
8	Temp B-A Warning (Normal)	Temp. B-A to judge the Temp Error at Normal (Clogging Det.)	100	100	100	100	0-100	
9	Temp C-A Warning (Normal)	Temp. C-A to judge the Temp Error at Normal (Clogging Det.)	100	100	100	100	0-100	
10	Temp A Warning (Eco)	Temp. A to judge the Temp Error at Eco (Room)	43	43	43	43	30-100	
11	Temp B Warning (Eco)	Temp. A to judge the Temp Error at Eco (Lamp)	62	62	62	62	30-100	
12	Temp C Warning (Eco)	Temp. A to judge the Temp Error at Eco (Panel)	48	48	48	48	30-100	
13	Temp B-A Warning (Eco)	Temp. B-A to judge the Temp Error at Normal (Clogging Det.)	100	100	100	100	0-100	
14	Temp C-A Warning (Eco)	Temp. C-A to judge the Temp Error at Normal (Clogging Det.)	100	100	100	100	0-100	
15	Temp A Warning Offset (Temp)	Offset of Temp Error (Temp.)	10				0-100	
16	Temp B Warning Offset (Temp)	Error Setting Value is increased XC at the below condition	11				0-100	
17	Temp C Warning Offset (Temp)	* Standby	13				0-100	
18	Temp B-A Warning Offset (Temp)	* Right to turn on the lamp	11				0-100	
19	Temp C-A Warning Offset (Temp)	*Right to change the Lamp mode	13				0-100	
20	Temp A Warning Offset (Time)	Offset of Temp Error (Minutes)	30				0-40	
21	Temp B Warning Offset (Time)	Error Setting Value is increased X minute at the below condition	15				0-40	
22	Temp C Warning Offset (Time)	* Standby	15				0-40	
23	Temp B-A Warning Offset (Time)	* Right to turn on the lamp	15				0-40	
24	Temp C-A Warning Offset (Time)	*Right to change the Lamp mode	15				0-40	
Group 254	**Fan Control Range Setting (Temp./REV)**		Normal	Ceiling	L1	L2		
0	High Fan Control Min Temp	Temp Senser Control Start/End Tem.p at High	26	26	26	26	20-100	
1	High Fan Control Max Temp		35	35	35	35	20-100	
2	High Fan1 Min	Fan Operation REV(Min/Max) setting at High (rpm)	2775	2775	2775	2775	0000-9990	
3	High Fan1 Max		2975	2975	2975	2975	0000-9990	
4	High Fan2 Min		1800	1800	1800	1800	0000-9990	
5	High Fan2 Max		2555	2555	2555	2555	0000-9990	
6	High Fan3 Min		4700	4700	5900	5900	0000-9990	
7	High Fan3 Max		4800	4800	6100	6100	0000-9990	
8	High Fan4 Min		3120	3120	3120	3120	0000-9990	
9	High Fan4 Max		5865	5865	5865	5865	0000-9990	
10	Normal Fan Control Min Temp	Temp Senser Control Start/End Tem.p at Normal	26	26	26	26	20-100	
11	Normal Fan Control Max Temp		35	35	35	35	20-100	
12	Normal Fan1 Min	Fan Operation REV(Min/Max) setting at Normal (rpm)	2495	2495	2495	2495	0000-9990	
13	Normal Fan1 Max		2795	2795	2795	2795	0000-9990	
14	Normal Fan2 Min		1625	1625	1625	1625	0000-9990	
15	Normal Fan2 Max		2245	2245	2245	2245	0000-9990	
16	Normal Fan3 Min		3650	3650	4850	4850	0000-9990	
17	Normal Fan3 Max		3725	3725	5000	5000	0000-9990	
18	Normal Fan4 Min		2605	2605	2605	2605	0000-9990	
19	Normal Fan4 Max		5275	5275	5275	5275	0000-9990	
20	Eco Fan Control Min Temp	Temp Senser Control Start/End Tem.p at Eco	26	26	26	26	20-100	
21	Eco Fan Control Max Temp		35	35	35	35	20-100	
22	Eco Fan1 Min	Fan Operation REV(Min/Max) setting at Eco (rpm)	2210	2210	2210	2210	0000-9990	
23	Eco Fan1 Max		2610	2610	2610	2610	0000-9990	
24	Eco Fan2 Min		1450	1450	1450	1450	0000-9990	
25	Eco Fan2 Max		1935	1935	1935	1935	0000-9990	
26	Eco Fan3 Min		2600	2600	3800	3800	0000-9990	
27	Eco Fan3 Max		2650	2650	3900	3900	0000-9990	
28	Eco Fan4 Min		2090	2090	2090	2090	0000-9990	
29	Eco Fan4 Max		4685	4685	4685	4685	0000-9990	



Ceiling \ Slant	Off	L1	L2
Off	Normal	Up	Down
On	Ceiling	Up	Down

Definition of Slant

Off	-20° ~ 20°
L1	20° ~ 160°
L2	-20° ~ -160°



Ceiling \ Slant	Off	L1	L2
Off	Normal	Up	Down
On	Ceiling	Up	Down

Definition of Slant

Off	-20° ~ 20°
L1	20° ~ 160°
L2	-20° ~ -160°

Group/ Item	Item Name	Function	Initial	Range	Note
Group 255	**Fan Start/Cooling Setting**				
0	Fan1 Initial Volt	Fan Start Voltage (0.1V)	55	0-255	
1	Fan2 Initial Volt		65	0-255	
2	Fan3 Initial Volt		35	0-255	
3	Fan4 Initial Pulse		700	0-4095	
4					* Not used
5					* Not used
6					* Not used
7					* Not used
8	Cooling Time	Cooling Time (x30sec) 1:30sec 3:90sec 15:450sec	3	1-15	
9					* Not used
10	Temp Error Cooling Time	Cooling Time at Temp Error (x30sec) 1:30sec 3:90sec 15:450sec	3	1-15	
11	OnStart Cooling Start Threshold		38	0-100	
12	After shutdown cooling	Cooling After Shut Down (0:No 1:Yes)	1	0-1	
Group 256	**Fan Lamp Voltage Down Setting**				
0	Lamp Voltage	Current Lamp Voltage (0.1V)(Read only)	-	0-255	
1	Lamp Vol Threshold	Threshold to judge Lamp Voltage Down (V× 10)	60	30-90	
2	Fan1 Speed Gain	Additional Fan Speed of Min at Lamp Voltage Down (rpm)	300	0-1500	
3	Fan2 Speed Gain		300	0-1500	
4	Fan3 Speed Gain		300	0-1500	
5	Fan4 Speed Gain		300	0-1500	
Group 257	**Fan Dimmer Setting**				
0	Dimmer Average Check Period	Dimmer Avarage measurement Time (0:10sec, 1:30sec, 2:6sec, 90sec...10:300sec)	1	0-10	
1	Dimmer Average	Dimmer Avarage Value (Read only)	-		
2	Last Voltage Difference		-		
3	Voltate Difference Goal		-		
Group 258	*** Not used**				
Group 260	**Auto Calibration (Commn) * Auto Calibration**				
0	Execute Calibration		0	0 - 1	Executes Auto-Calibration when changiing the Value (PC White 100%) * Signal auto calibration
1	Loop Count	Maximum Execution Times (OFFSET->GAIN)	3	1 - 30	
2	Auto Status	Result of Auto-Calibration (Last Memory)	0	0 / 1 / 9	0: OK, 1: Adjusting,9: Error * ReadOnly
3	AutoWait	Wait Value for each setting	3	1 - 20	
4	CHECK -Tolelance	Torelance of OFFSET	1	1 - 255	
Group 261	**Auto Calibration (RGB)**				
0	OFFSET AREA H START	Black Level Acquiring Area H-Start Position	975	0 - 1000	
1	OFFSET AREA V START	Black Level Acquiring Area V-Start Position	500	0 - 1000	
2	GAIN AREA H START	White Level Acquiring Area H-Start Position	25	0 - 1000	
3	GAIN AREA V START	White Level Acquiring Area V-Start Position	500	0 - 1000	
4	Image AREA H WIDTH	Black/White Level Acquiring Area	13	0 - 4095	
5	Image AREA V HIGHT	Black/White Level Acquiring Area Height	9	0 - 4095	
6	OFFSET target	Target Value of Black Level Adj.	3	0 - 127	
7	OFFSET torelance	Torelance of Black Level Adj.	1	1 - 127	
8	GAIN target	Target Value of White Level Adj.	238	0 - 255	
9	GAIN torelance	Torelance of White Level Adj.	1	1 - 255	
Group 263	**Auto Calibration (CVBS/SVIDEO) CXA3815**				
0	Y Image Area Start X	Y Acquiring Area H-Start Position	25	0 - 1000	
1	Y Image Area Start Y	Y Acquiring Area V-Start Position	200	0 - 1000	
6	Image Area H Width	Image Level Acquiring Area	13	0 - 4095	
7	Image Area V Hight	Image Level Acquiring Area Height	9	0 - 4095	
8	Y Target Level	Target Value of Y Level Adj.	200	0 - 255	
11	Gain Tolerance	Torelance of Level Adj.	1	0 - 255	
Group 265	**Auto Calibration (YCbCr) CXA3815**				
6	Y - GAIN AREA H START	Y	25	0 - 1000	
7	Y - GAIN AREA V START		500	0 - 1000	

Group/ Item	Item Name	Function	Initial	Range	Note
12	Image AREA H WIDTH	YCBCR Level Acquiring Area	13	0 - 4095	
13	Image AREA V HIGHT	YCBCR Level Acquiring Area Height	9	0 - 4095	
17	Y - GAIN TARGET		200	0 - 255	
21	GAIN torelance	Torelance of GAIN Adj.	1	1 - 255	
Group 270	**CUSTOM(Aspect)**				
0	Horizontal Scaler	H-Scaler Edit	100	68 - 132	
1	Vertical Scaler	V-Scaler Edit	100	68 - 132	
2	Connect	Link/Unlink Edit Selection	0	0 - 1	0: Unlinked Edit, 1: Linked Edit
3	Position Horizontal	H-Position Compensation	100	85 - 115	
4	Position Vertical	V-Position Compensation	100	85 - 115	
5	Aspect Enable	Aspect Adjustment Enable	0	0 - 1	0: Enable, 1: Disable
Group 280	**AutoPC Adjsut**				
0	AutoPCAdjustEnable	Auto-PC Adj Operation Enable if Un-supported Signal Input	0	0 - 1	0: Enable, 1: Disable
1	Frequency Step	Frequency Steps of TotalDot	1	0-3	
2	Frequency Threshold	Total Dot Freqency Threshold	5	0 - 10	0 [] <--- -----> 10[Not matched]
3	Fine Phase	Do Phase Adj after Total Dot Adj.	1	0 - 1	0: Executes Fine Phase, 1: Not Execute
4	BLKDET	Black Level Detection Area	1	0 - 7	
5	PHASEMSK	Phase Detection Filter	0	0 - 3	0: Effective All Bit, 1: Disable Lower 1 bit 2: Disable Lower 2 bit, 3: Disable Lower 3 bit
Group 290	**PanelType**				
0	GammaL/R-View	Current Setting Check	-	0-20	0: Gamma for L-Turn 20: Gamma for R-Turn * Read only
1					
Group 500	**Composite (NTSC) Composite / S-Video**				
0					* Read only
1	Disp Dots		668	0 ~ 4095	
2	H Back Porch		129	0 ~ 4095	
3	V Back Porch		47	0 ~ 4095	
4	Disp Line		456	0 ~ 4095	
7					* Not used
8					* Not used
Group 501	**Composite (PAL) Composite / S-Video**				
0					* Read only
1	Disp Dots		662	0 ~ 4095	
2	H Back Porch		144	0 ~ 4095	
3	V Back Porch		59	0 ~ 4095	
4	Disp Line		542	0 ~ 4095	
7					* Not used
8					* Not used
Group 502	**Composite (SECAM) Composite / S-Video**				
0					* Read only
1	Disp Dots		662	0 ~ 4095	
2	H Back Porch		144	0 ~ 4095	
3	V Back Porch		59	0 ~ 4095	
4	Disp Line		542	0 ~ 4095	
7					* Not used
8					* Not used
Group 510	**SCART(480i)**				
0					* Read only
1	Disp Dots		668	0 ~ 4095	
2	H Back Porch		128	0 ~ 4095	
3	V Back Porch		47	0 ~ 4095	
4	Disp Line		456	0 ~ 4095	
7					* Not used
8					* Not used
Group 511	**SCART (575i)**				
0					* Read only
1	Disp Dots		652	0 ~ 4095	
2	H Back Porch		136	0 ~ 4095	
3	V Back Porch		59	0 ~ 4095	

Electrical Adjustment

Group/ Item	Item Name	Function	Initial	Range	Note
4	Disp Line		544	0 ~ 4095	
7					* Not used
8					* Not used
Group 520	**YCbCr (480i)**				
0	Total Dots		858	0 ~ 4095	* Read only
1	Disp Dots		668	0 ~ 4095	
2	H Back Porch		131	0 ~ 4095	
3	V Back Porch		47	0 ~ 4095	
4	Disp Line		456	0 ~ 4095	
7					* Not used
8					* Not used
Group 521	**YCbCr (575i)**				
0	Total Dots		864	0 ~ 4095	* Read only
1	Disp Dots		660	0 ~ 4095	
2	H Back Porch		146	0 ~ 4095	
3	V Back Porch		60	0 ~ 4095	
4	Disp Line		542	0 ~ 4095	
7					* Not used
8					* Not used
Group 522	**YCbCr (480P)**				
0	Total Dots		858	0 ~ 4095	* Read only
1	Disp Dots		684	0 ~ 4095	
2	H Back Porch		123	0 ~ 4095	
3	V Back Porch		47	0 ~ 4095	
4	Disp Line		458	0 ~ 4095	
7					* Not used
8					* Not used
Group 523	**YCbCr (575P)**				
0	Total Dots		864	0 ~ 4095	* Read only
1	Disp Dots		680	0 ~ 4095	
2	H Back Porch		135	0 ~ 4095	
3	V Back Porch		59	0 ~ 4095	
4	Disp Line		544	0 ~ 4095	
7					* Not used
8					* Not used
Group 524	**YCbCr (720P - 60)**				
0	Total Dots		1650	0 ~ 4095	* Read only
1	Disp Dots		1248	0 ~ 4095	
2	H Back Porch		308	0 ~ 4095	
3	V Back Porch		34	0 ~ 4095	
4	Disp Line		700	0 ~ 4095	
7					* Not used
8					* Not used
Group 525	**YCbCr (720P - 50)**				
0	Total Dots		1980	0 ~ 4095	* Read only
1	Disp Dots		1248	0 ~ 4095	
2	H Back Porch		308	0 ~ 4095	
3	V Back Porch		34	0 ~ 4095	
4	Disp Line		700	0 ~ 4095	
7					* Not used
8					* Not used
Group 526	**YCbCr (1080i - 60)**				
0	Total Dots		2200	0 ~ 4095	* Read only
1	Disp Dots		1872	0 ~ 4095	
2	H Back Porch		249	0 ~ 4095	
3	V Back Porch		54	0 ~ 4095	
4	Disp Line		1052	0 ~ 4095	
7					* Not used
8					* Not used
Group 527	**YCbCr (1080i - 50)**				
0	Total Dots		2640	0 ~ 4095	* Read only

Electrical Adjustment

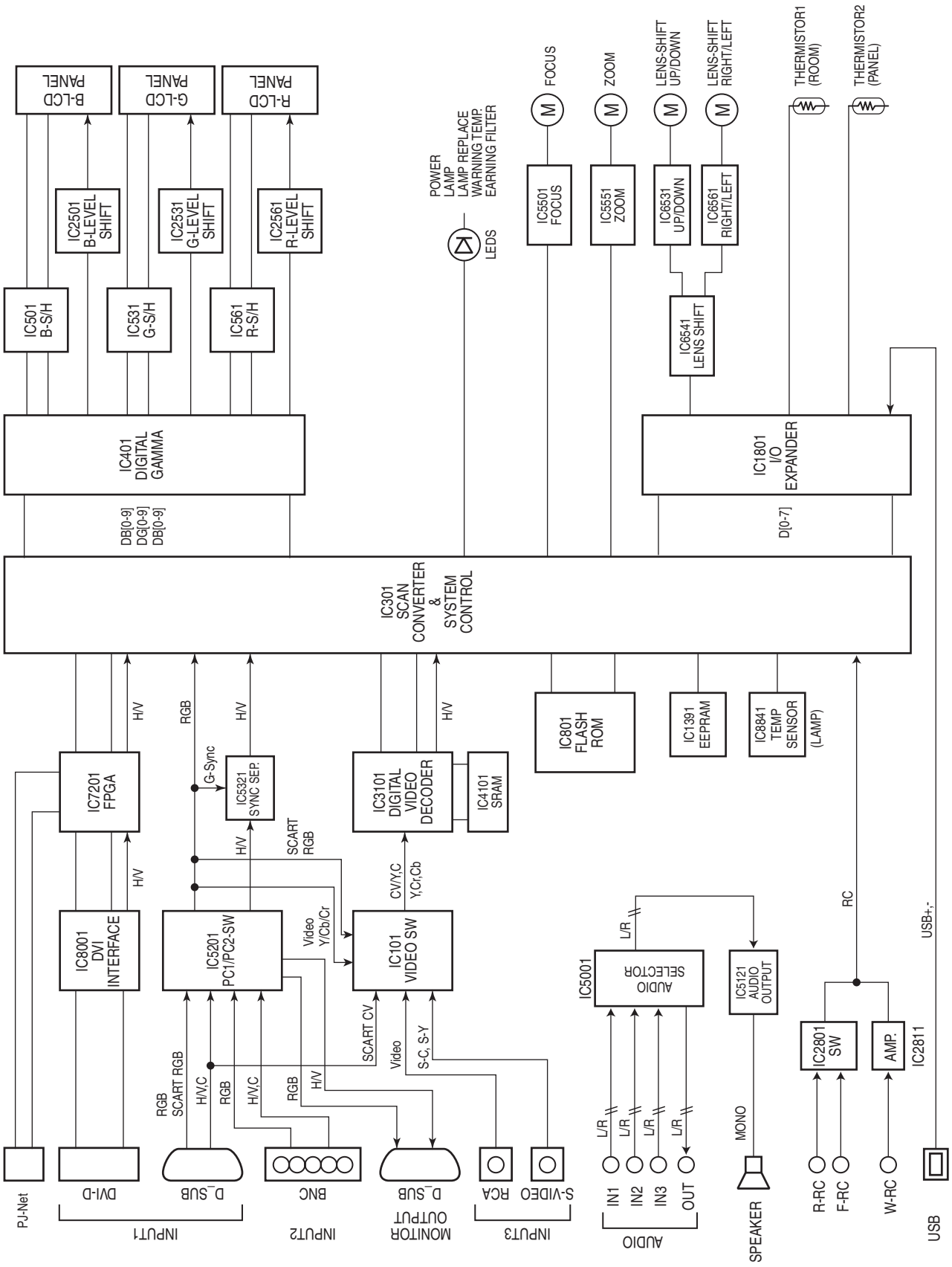
Group/ Item	Item Name	Function	Initial	Range	Note
1	Disp Dots		1872	0 ~ 4095	
2	H Back Porch		249	0 ~ 4095	
3	V Back Porch		54	0 ~ 4095	
4	Disp Line		1050	0 ~ 4095	
7					* Not used
8					* Not used
Group 528	**YCbCr (1035i)**				
0	Total Dots		2200	0 ~ 4095	* Read only
1	Disp Dots		1872	0 ~ 4095	
2	H Back Porch		249	0 ~ 4095	
3	V Back Porch		92	0 ~ 4095	
4	Disp Line		1006	0 ~ 4095	
7					* Not used
8					* Not used
Group 540	**RGB Video (480i)**				
0	Total Dots		960	0 ~ 4095	
1	Disp Dots		752	0 ~ 4095	
2	H Back Porch		166	0 ~ 4095	
3	V Back Porch		48	0 ~ 4095	
4	Disp Line		460	0 ~ 4095	
7					* Not used
8					* Not used
Group 541	**RGB Video (575i)**				
0	Total Dots		966	0 ~ 4095	
1	Disp Dots		736	0 ~ 4095	
2	H Back Porch		182	0 ~ 4095	
3	V Back Porch		66	0 ~ 4095	
4	Disp Line		536	0 ~ 4095	
7					* Not used
8					* Not used
Group 542	**RGB Video (480P)**				
0	Total Dots		960	0 ~ 4095	
1	Disp Dots		766	0 ~ 4095	
2	H Back Porch		156	0 ~ 4095	
3	V Back Porch		46	0 ~ 4095	
4	Disp Line		460	0 ~ 4095	
7					* Not used
8					* Not used
Group 543	**RGB Video (575P)**				
0	Total Dots		986	0 ~ 4095	
1	Disp Dots		774	0 ~ 4095	
2	H Back Porch		174	0 ~ 4095	
3	V Back Porch		62	0 ~ 4095	
4	Disp Line		540	0 ~ 4095	
7					* Not used
8					* Not used
Group 544	**RGB Video (720P - 60)**				
0	Total Dots		1650	0 ~ 4095	
1	Disp Dots		1248	0 ~ 4095	
2	H Back Porch		310	0 ~ 4095	
3	V Back Porch		34	0 ~ 4095	
4	Disp Line		702	0 ~ 4095	
7					* Not used
8					* Not used
Group 545	**RGB Video (720P - 50)**				
0	Total Dots		1980	0 ~ 4095	
1	Disp Dots		1246	0 ~ 4095	
2	H Back Porch		310	0 ~ 4095	
3	V Back Porch		34	0 ~ 4095	
4	Disp Line		702	0 ~ 4095	
7					* Not used
8					* Not used

Group/ Item	Item Name	Function	Initial	Range	Note
Group 546	**RGB Video (1080i - 60)**				
0	Total Dots		2200	0 ~ 4095	
1	Disp Dots		1872	0 ~ 4095	
2	H Back Porch		254	0 ~ 4095	
3	V Back Porch		56	0 ~ 4095	
4	Disp Line		1052	0 ~ 4095	
7					* Not used
8					* Not used
Group 547	**RGB Video (1080i - 50)**				
0	Total Dots		2640	0 ~ 4095	
1	Disp Dots		1868	0 ~ 4095	
2	H Back Porch		258	0 ~ 4095	
3	V Back Porch		54	0 ~ 4095	
4	Disp Line		1052	0 ~ 4095	
7					* Not used
8					* Not used
Group 548	**RGB Video (1035i)**				
0	Total Dots		2200	0 ~ 4095	
1	Disp Dots		1920	0 ~ 4095	
2	1868H Back Porch		258	0 ~ 4095	
3	V Back Porch		92	0 ~ 4095	
4	Disp Line		1012	0 ~ 4095	
7					* Not used
8					* Not used
Group 549	*** Not used**				
Group 550	*** Not used**				
Group 551	*** Not used**				
Group 552	*** Not used**				
Group 553	*** Not used**				
Group 560	**HDCP (480P)**				
0					* Not used
1					* Not used
2					* Not used
3					* Not used
4					* Not used
7	OverScan	Over Scan Rate(0~25.5% : 0.1%Step)	0	0 ~ 255	
8	VSBEG		2	0 ~ 15	
Group 561	**HDCP (575P)**				
0					* Not used
1					* Not used
2					* Not used
3					* Not used
4					* Not used
7	OverScan	Over Scan Rate(0~25.5% : 0.1%Step)	0	0 ~ 255	
8	VSBEG		2	0 ~ 15	
Group 562	**HDCP (720P - 60)**				
0					* Not used
1					* Not used
2					* Not used
3					* Not used
4					* Not used
7	OverScan	Over Scan Rate(0~25.5% : 0.1%Step)	0	0 ~ 255	
8	VSBEG		2	0 ~ 15	
Group 563	**HDCP (720P - 50)**				
0					* Not used
1					* Not used
2					* Not used
3					* Not used
4					* Not used
7	OverScan	Over Scan Rate(0~25.5% : 0.1%Step)	0	0 ~ 255	
8	VSBEG		2	0 ~ 15	

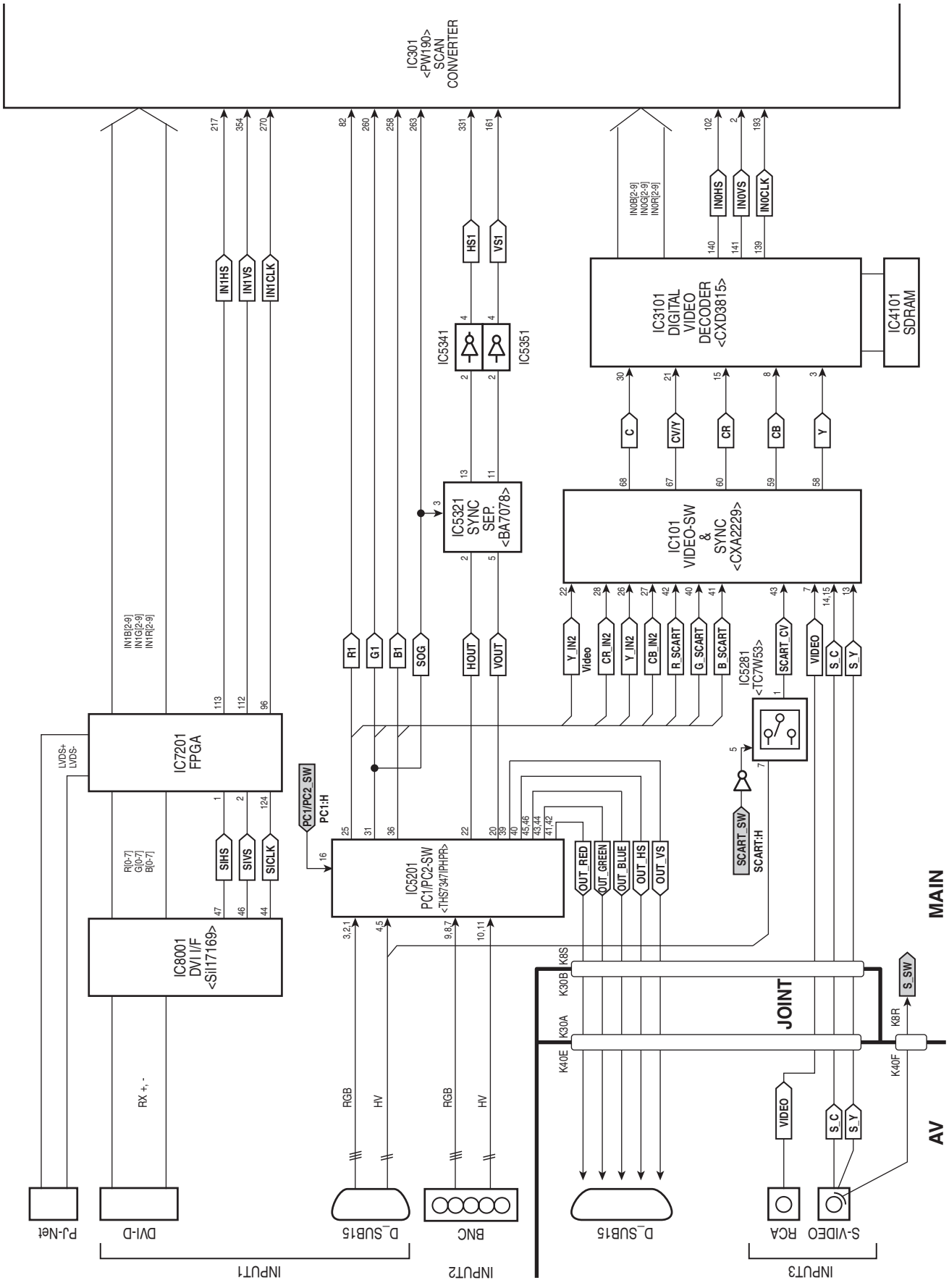
Group/ Item	Item Name	Function	Initial	Range	Note
Group 564	**HDCP (1080i - 60)**				
0					* Not used
1					* Not used
2					* Not used
3					* Not used
4					* Not used
7	OverScan	Over Scan Rate(0~25.5% : 0.1%Step)	0	0 ~ 255	
8	VSBEG		2	0 ~ 15	
Group 565	**HDCP (1080i - 50)**				
0					* Not used
1					* Not used
2					* Not used
3					* Not used
4					* Not used
7	OverScan	Over Scan Rate(0~25.5% : 0.1%Step)	0	0 ~ 255	
8	VSBEG		2	0 ~ 15	
Group 566	**HDCP (1035i)**				
0					* Not used
1					* Not used
2					* Not used
3					* Not used
4					* Not used
7	OverScan	Over Scan Rate(0~25.5% : 0.1%Step)	0	0 ~ 255	
8	VSBEG		2	0 ~ 15	
Group 567	*** Not used**				
Group 568	*** Not used**				
Group 569	*** Not used**				
Group 570	*** Not used**				
Group 571	*** Not used**				
Group 981	**Color Shading Adj Offset**				
0	R-Max		0/0	0-255	
1	R-Mid1		0/0	0-255	
2	R-Mid2		0/0	0-255	
3	R-Min		0/0	0-255	
4	G-Max		0/0	0-255	
5	G-Mid1		0/0	0-255	
6	G-Mid2		0/0	0-255	
7	G-Min		0/0	0-255	
8	B-Max		0/0	0-255	
9	B-Mid1		0/0	0-255	
10	B-Mid2		0/0	0-255	
11	B-Min		0/0	0-255	

Chassis Description

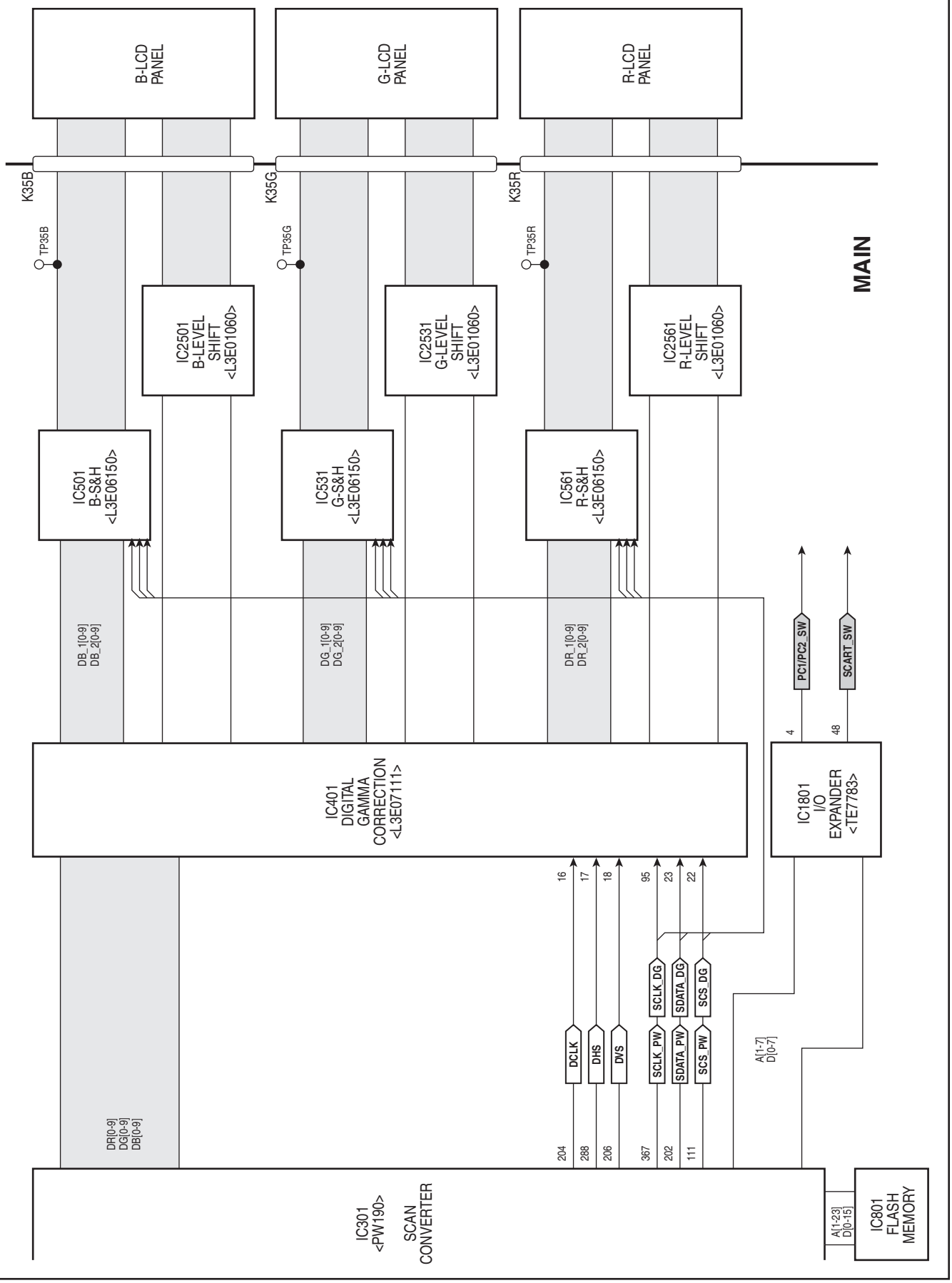
Chassis over view



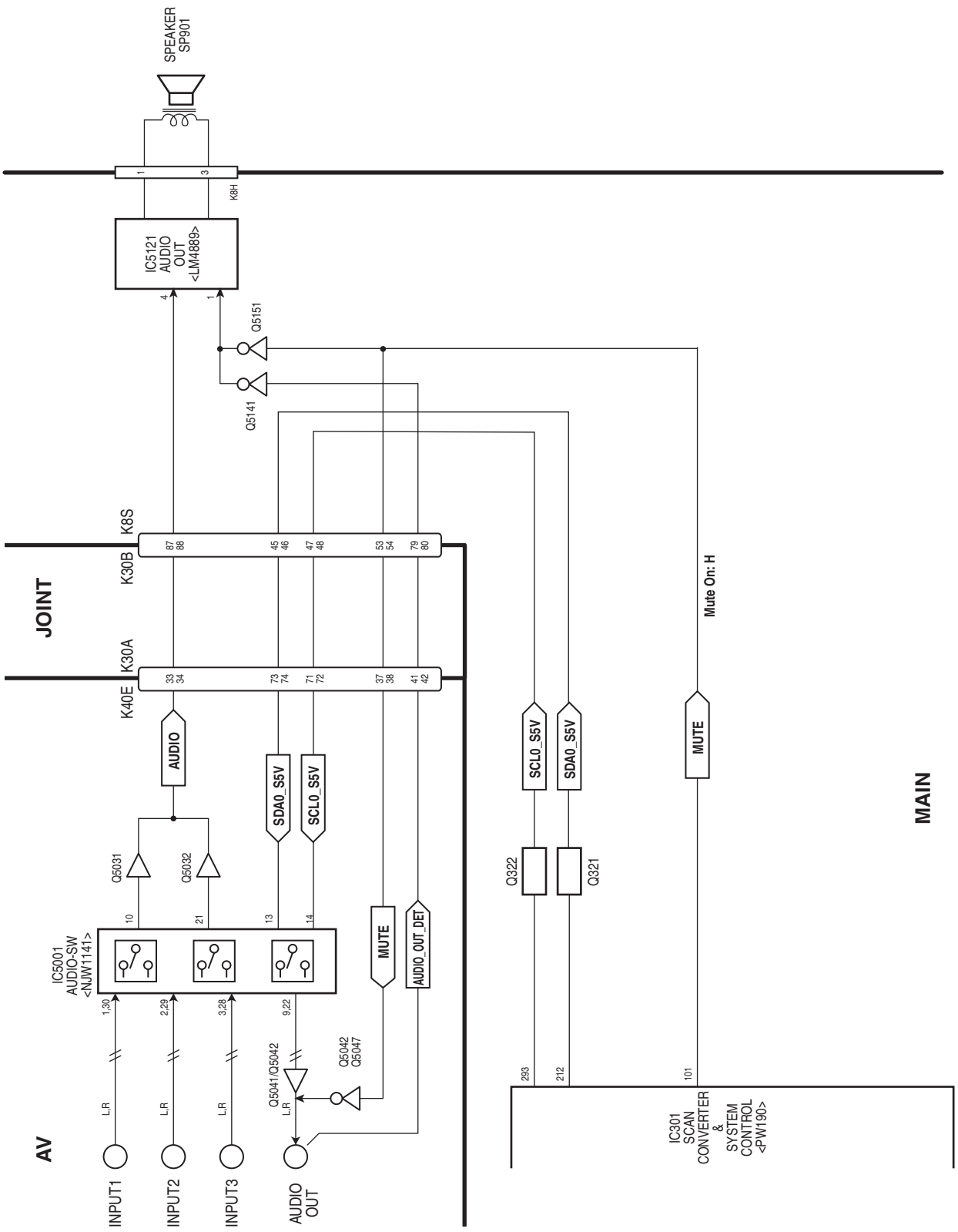
Input & signal processing stage



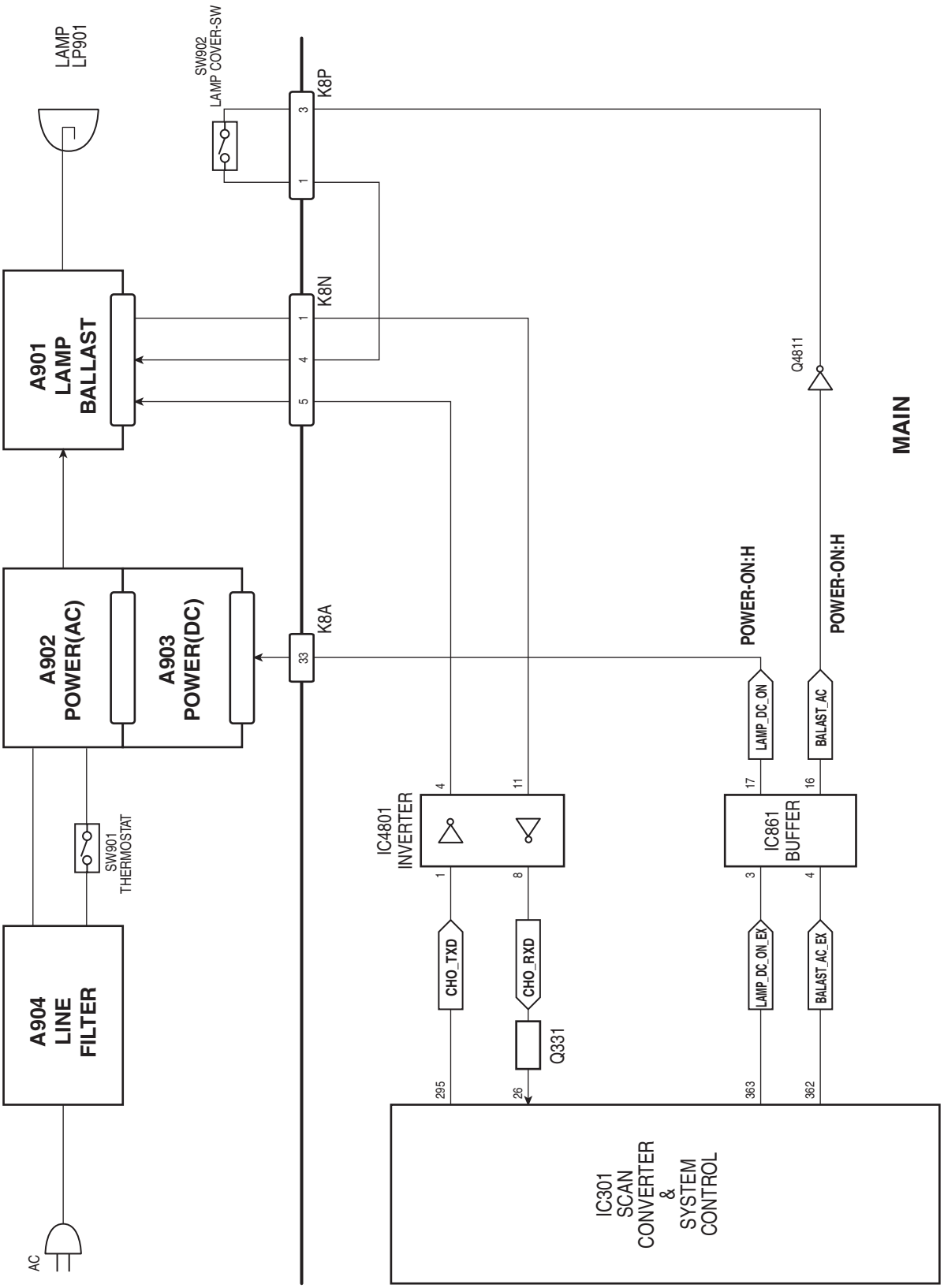
LCD drive stage



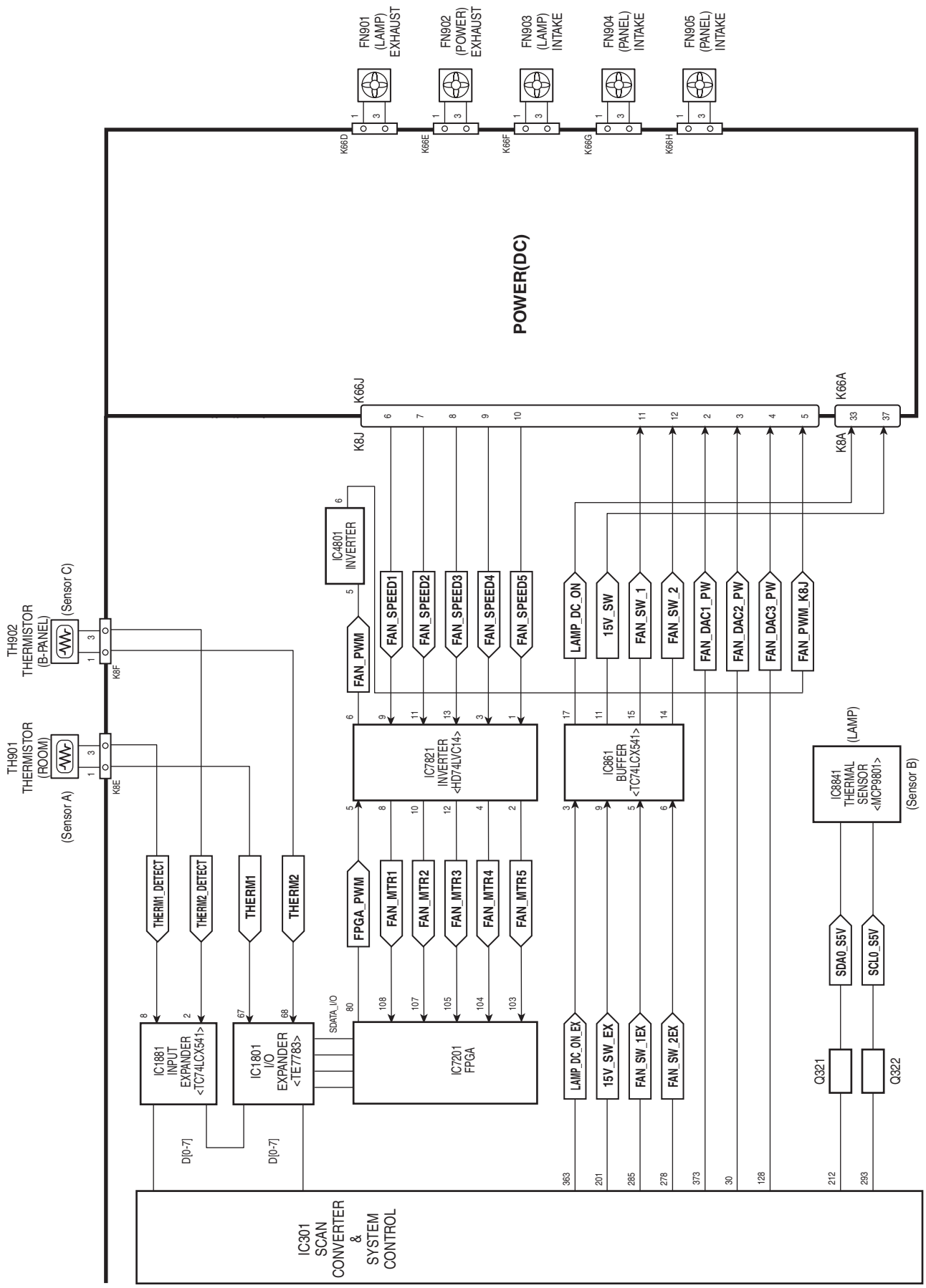
Audio signal processing stage



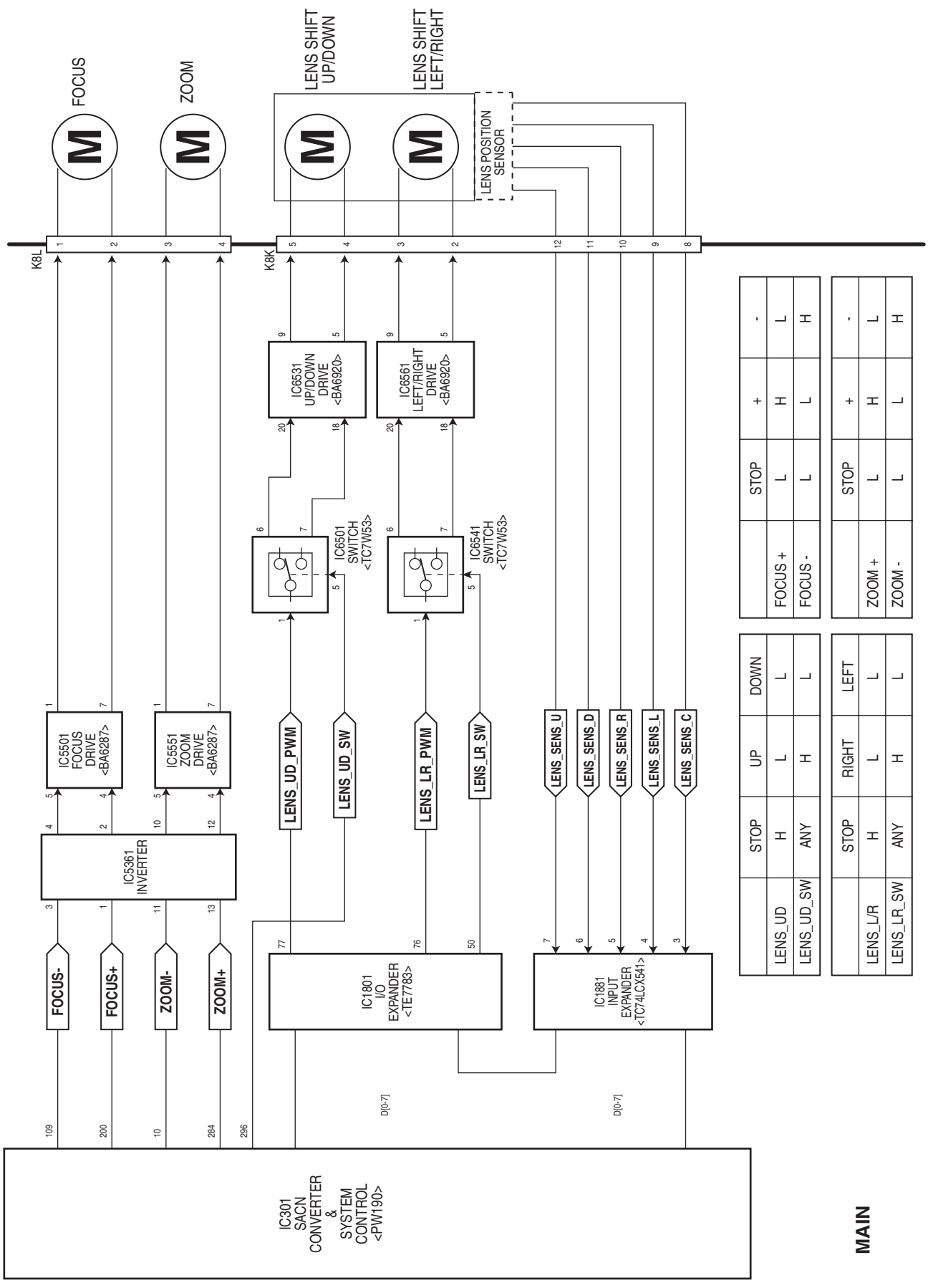
Lamp control stage



Fan control stage



Motor control stage



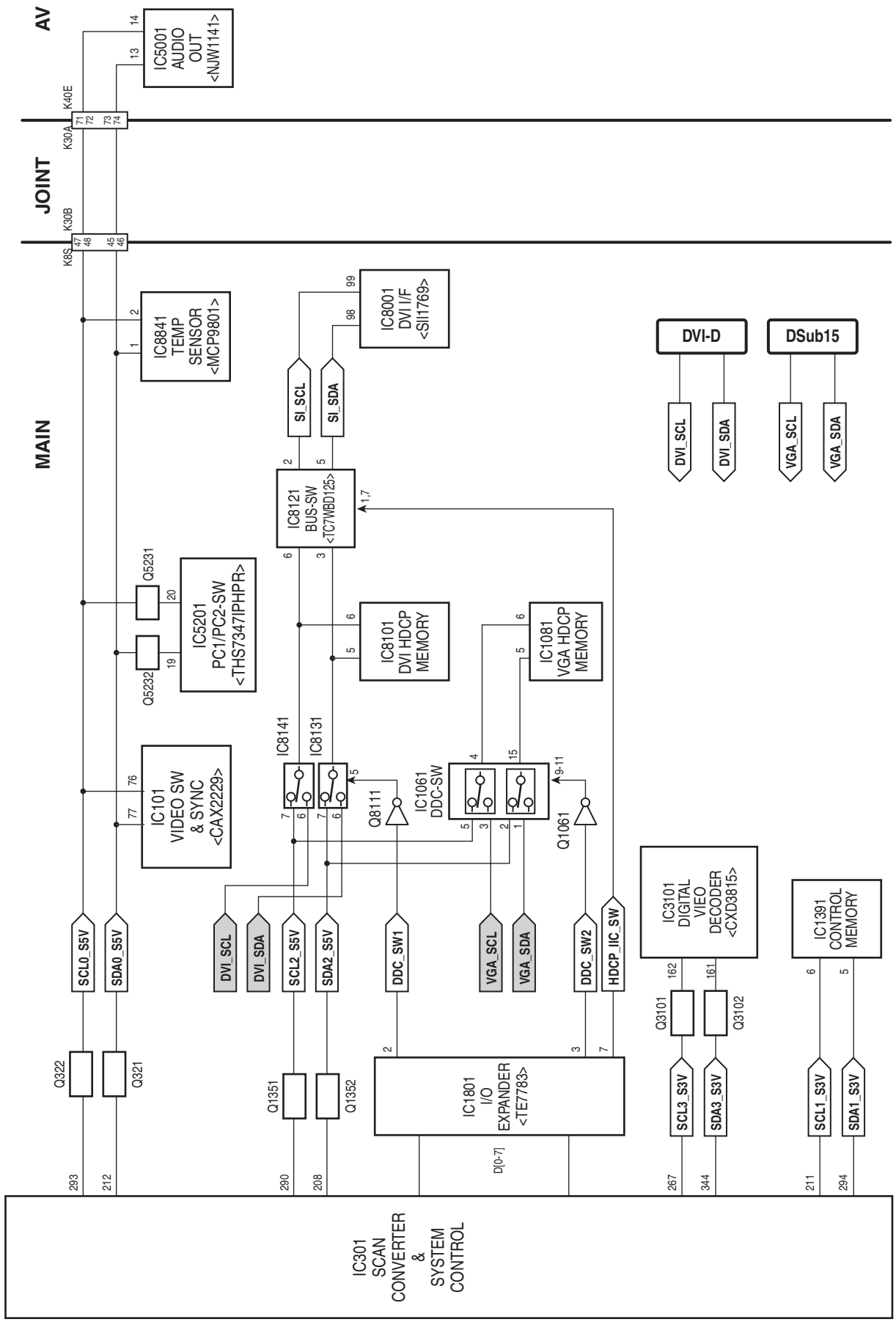
	STOP	UP	DOWN
LENS_UD	H	L	L
LENS_UD_SW	ANY	H	L

	STOP	RIGHT	LEFT
LENS_L/R	H	L	L
LENS_LR_SW	ANY	H	L

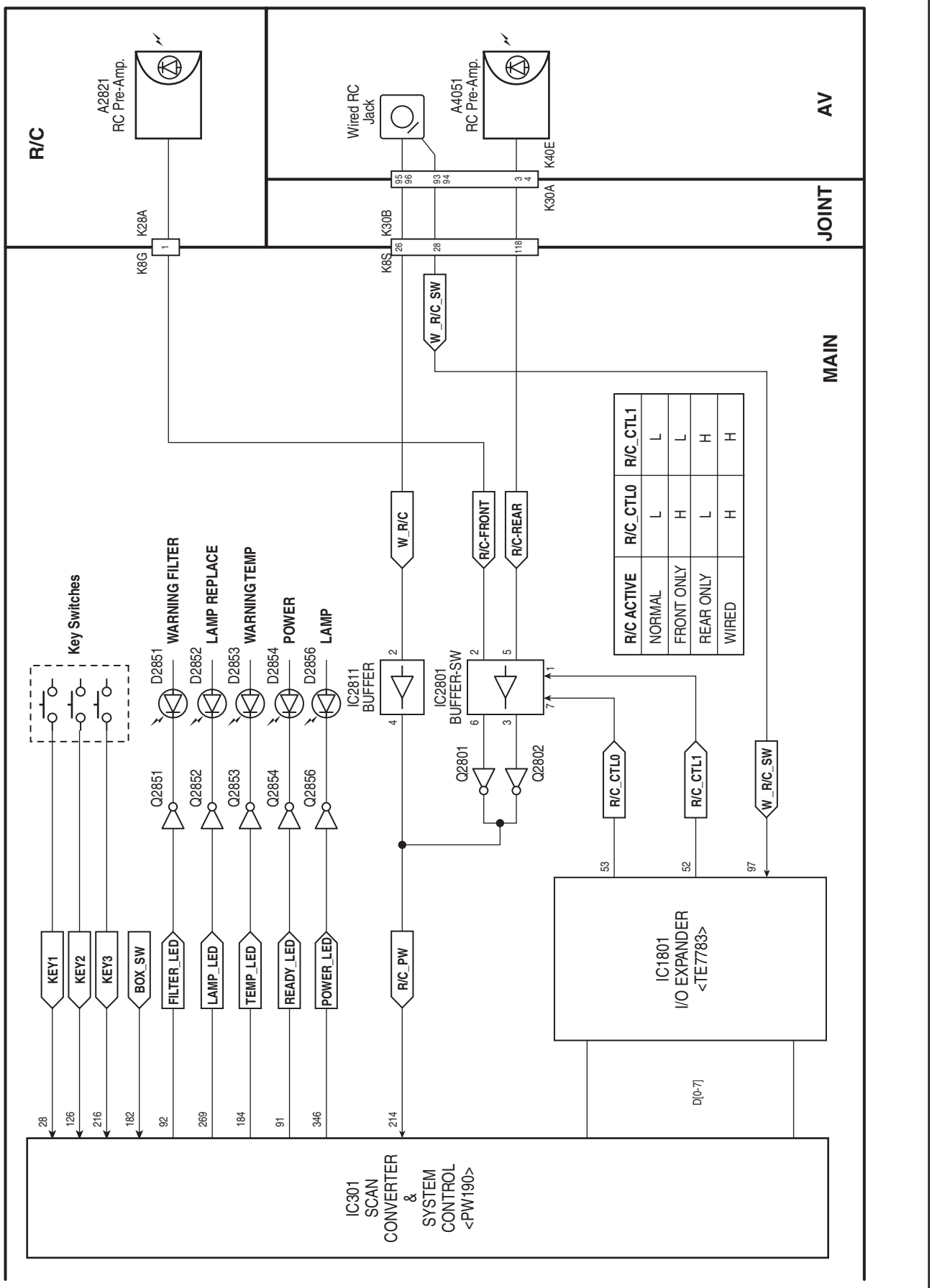
	STOP	+	-
FOCUS +	L	H	L
FOCUS -	L	L	H

	STOP	+	-
ZOOM +	L	H	L
ZOOM -	L	L	H

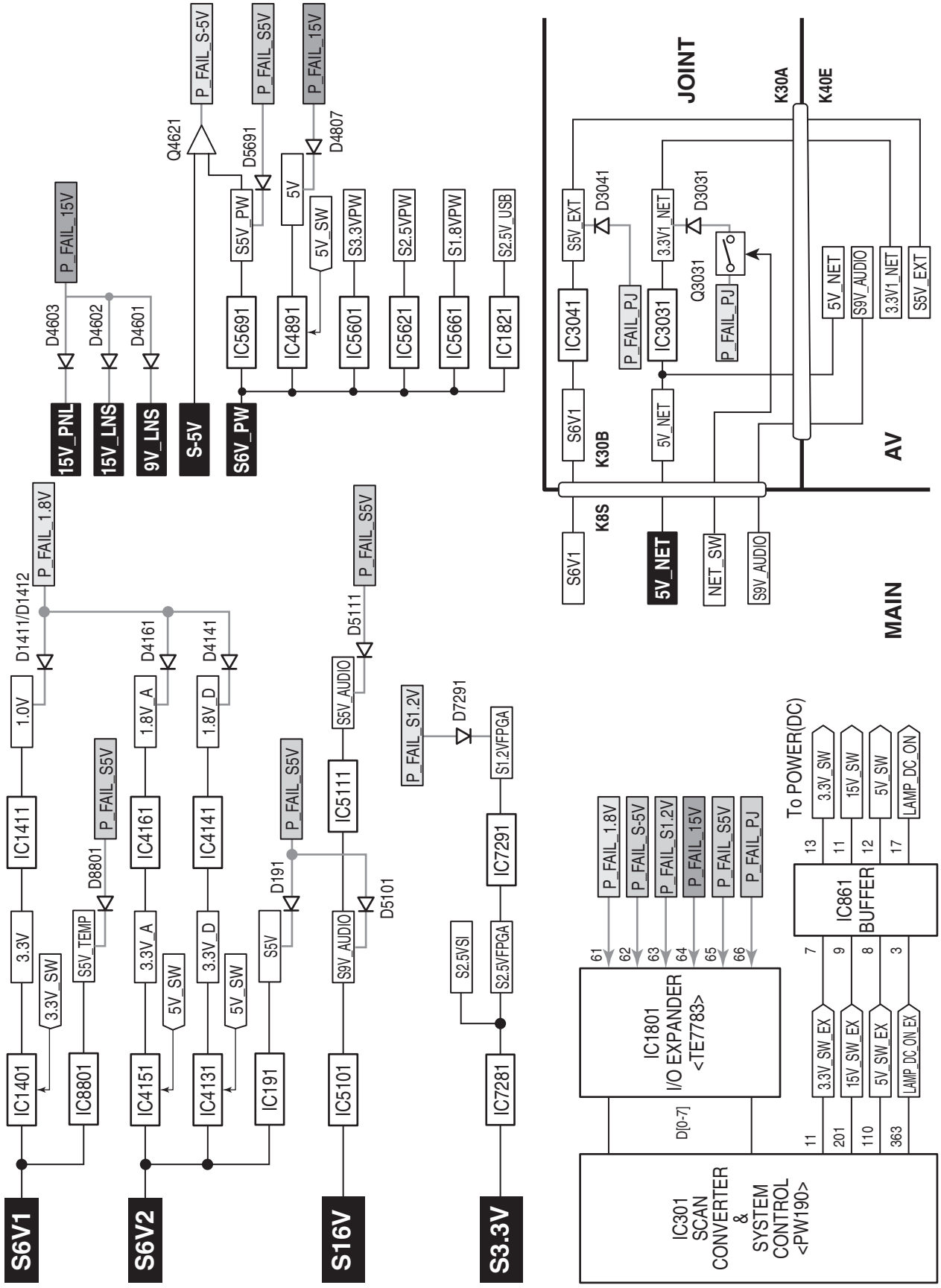
Bus control stage



LED drive & RC control stage



Power supply & power failure circuit



Indicators and Projector Condition

Check the indicators for projector condition.

WARNING TEMP. indicator

Indicators			Projector Condition
POWER green	LAMP red	WARNING TEMP. red	
●	●	●	The projector is off. (The AC power cord is unplugged.)
○	●	●	The projector is in stand-by mode. Press the ON/STAND-BY button to turn on the projector.
○	○	●	The projector is operating normally.
⁞/○	●	⁞/○	The temperature inside the projector is abnormally high. The projector cannot be turned on. When the projector is cooled down enough and the temperature returns to normal, the POWER indicator stops blinking and the projector can be turned on. (The WARNING TEMP. indicator keeps blinking.) Check and clean the filter.
○	●	⁞/○	The projector has been cooled down enough and the temperature returns to normal. When turning on the projector, the WARNING TEMP. indicator stops blinking. Check and clean the filter.
⁞/○	●	●	The projector is preparing for stand-by or the projection lamp is being cooled down. The projector cannot be turned on until cooling is completed and the POWER indicator stops blinking.
POWER, LAMP, WARNING TEMP., WARNING FILTER, and LAMP REPLACE indicators are blinking all together.		⁞/○	The projector detects an abnormal condition and cannot be turned on. Unplug the AC power cord and plug it again to turn on the projector. If the projector is turned off again, unplug the AC power cord and contact the dealer or the service center. Do not leave the projector on. It may cause an electric shock or a fire hazard.
⁞/○	○	●	The projector is in the Power management mode.

○ • • • lighting. ⁞/○ • • • blinking ● • • • off

WARNING FILTER indicator

Indicators			Projector Condition
POWER green	LAMP red	WARNING FILTER orange	
○	○	⁘	The filter is clogged. Stop using the projector immediately and clean or replace the filter (see below).
Filter warning red icon			
--	--	○	The Filter counter reached a set time. Clean or replace the filter as soon as possible.
Filter warning yellow icon			

If filter clogging is detected during operations, the Filter warning icon (red) appears on the screen and the WARNING FILTER indicator blinks orange, urging you to clean or replace the filter. Stop using the projector immediately and clean or replace the filter. The WARNING FILTER indicator and Filter warning icon will not be turned off until the filter is cleaned or replaced by a new one.

Filter warning icon (red) appears on the screen when the projector detects filter clogging.

LAMP REPLACE indicator

Indicators			Projector Condition
POWER green	LAMP red	LAMP REPLACE yellow	
⁘	●	⁘	The lamp cannot light up. (The projector is preparing for stand-by or the projection lamp is being cooled down. The projector cannot be turned on until cooling is completed.)
○	●	⁘	The lamp cannot light up. (The lamp has been cooled down enough and the projector is in stand-by mode and ready to be turned on with the ON/STAND-BY button.)
--	--	○	The lamp has been used overtime. Replace the lamp immediately and then reset the lamp counter. The indicator will be turned off after resetting the counter.

* When the projection lamp reaches its end of life, the LAMP REPLACE indicator lights yellow. When this indicator lights yellow, replace the projection lamp with a new one promptly. Reset the lamp counter after replacing the lamp.

Power failure detection system

Detection of Power failure

Projector provides a protection circuit to prevent the secondary failure when the power failure, fans failure or temperature failure occurs on the projector. The power failure detection lines "P_FAIL_S5V", "P_FAIL_15V", etc. are connected to the main power supplies and fans. When the failure occurs, IC301<SYSTEM CONTROL> receives an error information through the power failure detection lines and turns off the signal "LAMP_DC_ON" output from pin 111 to stop the power supply.
The power failure detection signals are sent to IC1801<I/O EXPANDER> and then sent to IC301<SYSTEM CONTROL> .

Diagnosis Information of Power Failure

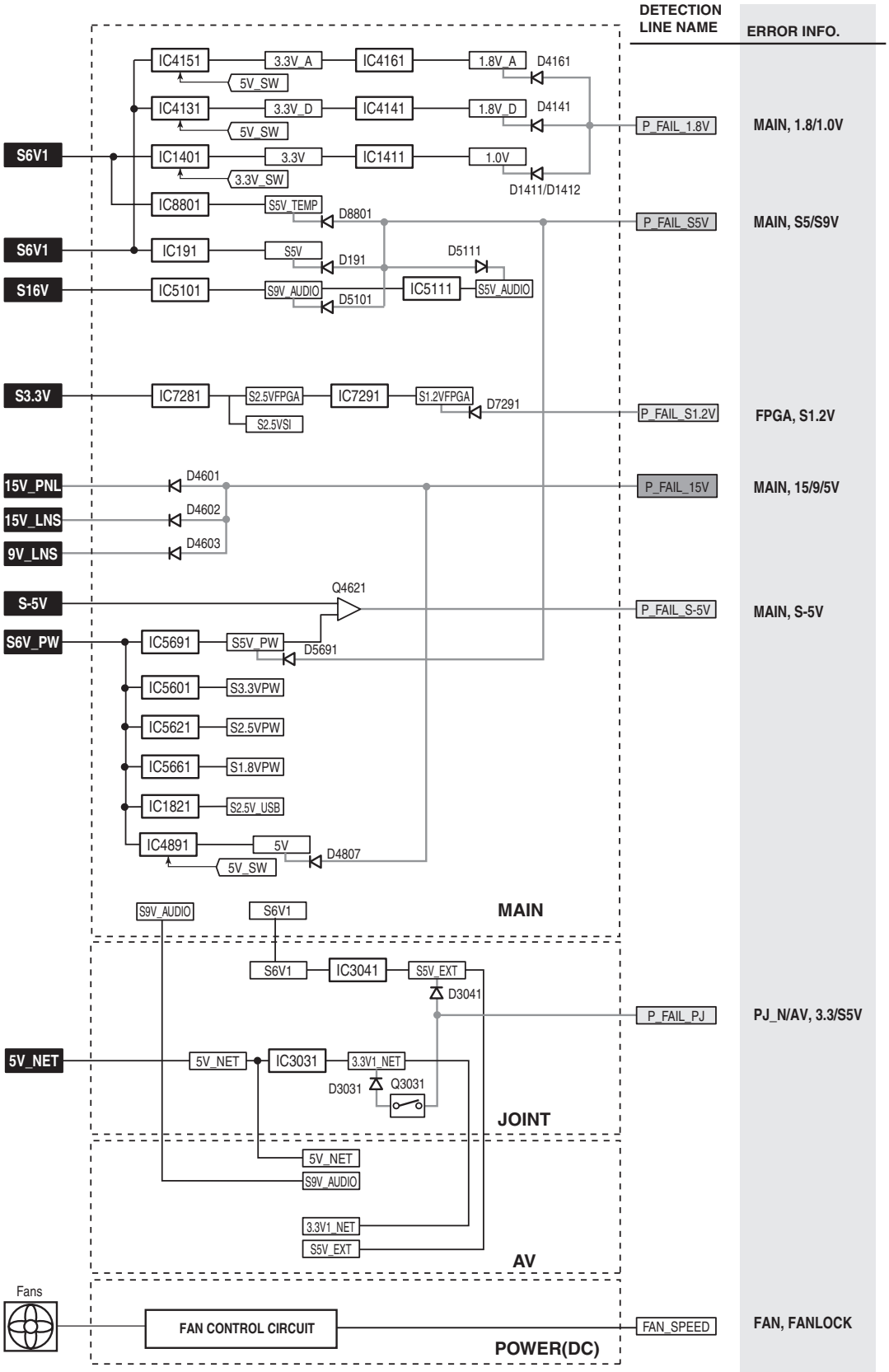
IC1801

Detecting Signal	Failure Circuit/Parts
P_FAIL_1.8V	3.3V, 1.8V, 1.0V and peripheral circuit on the Main Board
P_FAIL_S5V	S5V, S9V and peripheral circuit on the Main Board
P_FAIL_15V	15V, 9V, 5V and peripheral circuit on the Main Board
P_FAIL_S1.2V	S1.2V and peripheral circuit on the Main Board
P_FAIL_S-5V	S-5V and peripheral circuit on the Main Board
P_FAIL_PJ	PJ-Network Board and peripheral circuit on the Main Board
FAN_SPEED	Failure of Fan, FN901, FN902, FN903, FN904, FN905 connected to the Power(DC) Board

Error information table

IC	Pin	Signal Name	Connection Lines	Error Information	Failue Area
IC1801	61	P_FAIL_1.8V	3.3V, 1.8V, 1,0V	MAIN, 1.8/1.0V	3.3V, 1.0V, 1.8V line on Main
	62	P_FAIL_S-5V	S-5V	MAIN, S-5V	S-5V line on Main, AV
	63	P_FAIL_S1.2V	S3.3V/FPGA, S2.5V/FPGA/ S1.2V	FPGA, S1.2V	S3.3V, S2.5V, S1.2V line on Main
	64	P_FAIL_15V	15V, 9V, 5V	MAIN, 15/9/5V	15V_PNL. 15V_LNS, 9V_LNS, 5V line on Main
	65	P_FAIL_S5V	S5V, S9V	MAIN, S5/S9	S5V_TEMP, S5V_AUDIO, S5V, S9V_AUDIO, S5V_PW line on Main
	66	P_FAIL_PJ	PJ-Network Board, AV	PJ_N/AV, 3.3/S5V	PJ-Network Board, 3.3V, S5V line on AV, Joint
IC7201	103 I 108	FAN_SPEED5 (FAN_MTR5) I FAN_SPEED1 (FAN_MTR1)	FAN CONTROL	FAN, FANLOCK	Fan Control on Power(DC)

Power failure detection tree



Error History Log

This projector provides the error history log function. To check the logs, you need to enter the service mode and select Group No. "220" and Item No. "0" to "49". The error code is displayed on the Data column. The description of the error code is listed on the table below.

* How to enter the service mode and select the group, item and data value, see "Service Adjustment Menu Operation".

Group No.	Item No.	Data (Error Code) (See table below)	
220	0	✻	<- Latest Error
	1	✻	
	2	✻	
	3	✻	
	.	✻	
	.	✻	
	.	✻	
	48	✻	
	49	✻	

Error	Error Code	Error Infomation (See Powe Failure Detection Tree)
Normal	0	-
Power Failure	1000	MAIN, 1,8/1.0V
	1001	MAIN, S-5V
	1002	FPGA, S1.2
	1003	MAIN, 15/9/5V
	1004	MAIN, S5/S9V
	1005	PJ_N/AV, 3.3/S5V
	1006	FAN1, FANLOCK
	1007	FAN2, FANLOCK
	1008	FAN3, FANLOCK
	1009	FAN4, FANLOCK
	1010	FAN5, FANLOCK
	1011	FPGA, CONFIG
Temperature Error	2000	Sensor A detects abnormal temperature. (TH901)
	2001	Sensor A fails measurement. (TH901)
	2100	Sensor B detects abnormal temperature. (IC8841)
	2101	Sensor B fails measurement. (IC8841)
	2102	Sensors B-A temperature error.
	2200	Sensor C detects abnormal temperature. (TH902)
	2201	Sensor C fails measurement. (TH902)
	2202	Sensors C-A temperature error.
Lamp Error	3000	Lamp1 fails on
	3001	Lamp1 goes out
	3002	Communication Error on Lamp1
Filter Error	4000	Air Filter Clogged

How to clear the Error History Log

1. Enter the Service Mode, and select Group No. "220" and Item No. "50".
2 The history log will be claered when the Data Value is set to "10". The value automatically returns to "0".

* How to enter the service mode and select the group, item and data value, see "Service Adjustment Menu Operation".

Diagnosis of Power Failure with RS-232C port

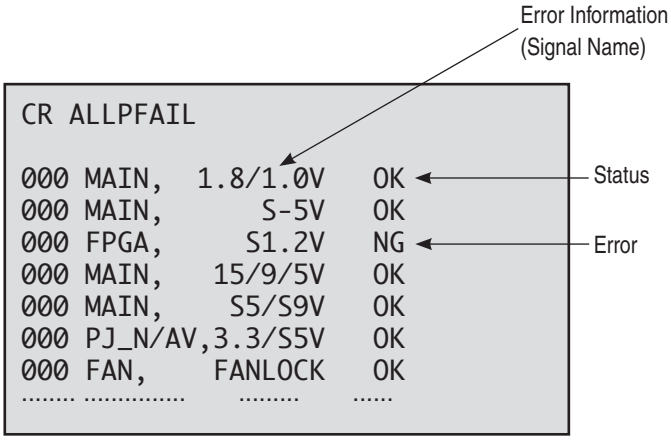
This projector provides a function to get the error information of the projector by using the RS-232C serial port for the power failure diagnosis.
The further error information of the power failure and fan failure can be found out by using this function.

Diagnosis procedure

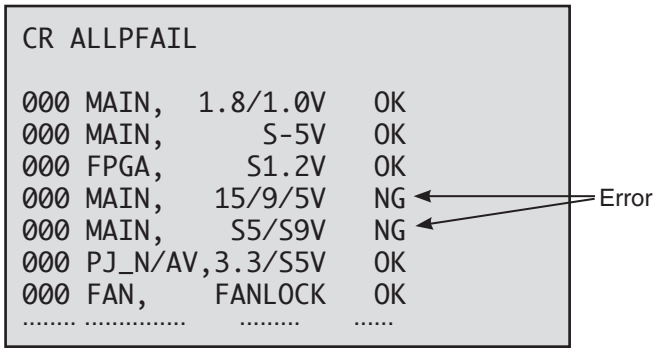
1 Connect a RS-232C serial cross cable to SERIAL PORT IN on the projector and serial port on the PC.
2 Launch a communication software "Hyper terminal" provided with PC and setup the communication condition as follows;

Baud rate	: 19200 bps
Parity check	: none
Stop bit	: 1
Flow control	: none
Data bit	: 8

3 Turn on the projector. Check that the LED shows a power failure. (All the LEDs except LAMP LED are blinking)
4 Type a diagnosis command of the power failure “CR ALLPFAIL” and press a "ENTER" key within 1 second on the command window of the software.
The error information will be listed on the window as the right.
Check the status column. If “NG” is listed, the power failure occurs on its signal line(Power Line Name). In case of the right table, this error information means that the power failure occurs on the S1.2V power supply on the FPGA circuit on the main board. Check if the parts connected to 6V power supply line are defective.



Also the error information may be listed multiple as the below;



In the above case, 2 kinds of causes are considered. One is the power failure occurs on the multiple places at the same time, other is a power failure affects multiple power supply lines even if the failure occurs on the single place.
In the first case, Check if the parts connected to the multiple power supply lines are defective. In the later case, determine a failure point referring to the power supply flow chart on previous page. Basically, if the power failure occurs on the upper side of power supply, the power failure is also detected on lower side of power supply frequently. If the failure occurs on the lower side of power supply, it is lightly affected to the upper side of the power supply. In the above case, because the failure occurs on the S6V power supply on the MAIN circuit on the main board, the failure is also detected on the 5V power supply and S5V power supply on the main board.

* See "Power Failure Detection Tree" for further description of the Error Information.

Control Port Functions

System Control I/O Port Functions (PW190)

PIN	PORT	NAME	DESCRIPTION	I/O
1	A1	SIPD	Sil169 Power Down, Power Down: L	O
10	A10	ZOOM-	Zoom Drive -, On: H Off:L	O
11	A11	3.3V_SW_EX	3.3V Power Supply On/Off Drive, Power On: H	O
101	B2	MUTE	Audio Mute, Mute On: H	O
109	B10	FOCUS-	Focus Drive -, On: H Off:L	O
110	B11	5V_SW_EX	5V Power Supply On/Off Drive, Power On: H	O
111	B12	SCS_PW	3wire Chip Select	O
124	B25	TXD_PW	UART TXD, Active:L	O
99	C1	IN1R5	Red Pixel Input	I
200	C10	FOCUS+	Focus Drive +, On: H Off:L	O
201	C11	15V_SW_EX	15V Power Supply On/Off Drive, Power On: H	O
202	C12	SDATA_PW	3Wire Data	O
205	C15	S&H_LR	Lens Shift R/L SW	O
208	C18	HW2Wire DA2	IIC Bus SDA2, Active:L	I/O
211	C21	HW2Wire CL1	IIC Bus SCL1, Active:L	I/O
98	D1	IN1R8	Red Pixel Input	I
191	D2	IN1R6	Red Pixel Input	I
276	D3	IN1R3	Red Pixel Input	I
278	D5	FAN_SW_2EX	Fan3 Control Signal, Lamp Valtage 40V or more: H Lamp Valtage 40V or less: L	O
284	D11	ZOOM+	Zoom Drive +, On: H Off:L	O
285	D12	FAN_SW_1EX	Fan Control SW, On: H	O
290	D17	HW2Wire CL2	IIC Bus SCL2, Active:L	I/O
293	D20	HW2Wire SC0	IIC Bus SCL0, Active:L	I/O
294	D21	HW2Wire DA1	IIC Bus SDA1, Active:L	I/O
296	D23	LENS_UD_SW	Lens Up/Down SW	O
97	E1	IN1G2	Green Pixel Input	I
190	E2	IN1R9	Red Pixel Input	I
275	E3	IN1R7	Red Pixel Input	I
352	E4	IN1R4	Red Pixel Input	I
353	E5	IN1R2	Red Pixel Input	I
362	E14	BALAST_AC_EX	Lamp Control Signal, On: H	O
363	E15	LAMP_DC_ON_EX	Ballast Power Control SW	O
368	E20	RXD_PW	UART RXD, Active:L	I
96	F1	IN1G6	Green Pixel Input	I
189	F2	IN1G3	Green Pixel Input	I
420	F5	IN1G4	Green Pixel Input	I
95	G1	IN1G9	Green Pixel Input	I
188	G2	IN1G7	Green Pixel Input	I
273	G3	IN1G5	Green Pixel Input	I
419	G5	IN1G8	Green Pixel Input	I
94	H1	IN1B3	Blue Pixel Input	I
187	H2	IN1B2	Blue Pixel Input	I
349	H4	IN1B6	Blue Pixel Input	I
418	H5	IN1B8	Blue Pixel Input	I
93	J1	IN1B9	Blue Pixel Input	I
186	J2	IN1B7	Blue Pixel Input	I
271	J3	IN1B5	Blue Pixel Input	I
348	J4	IN1B4	Blue Pixel Input	I
92	K1	FILTER_LED	Filter LED, On: H	O
185	K2	PDO	DVI Output Power Down Mode,PowerDown:L	O
347	K4	IN1PEN	Pixel Data Enable	I
91	L1	READY_LED	Ready LED, On: H	O
184	L2	TEMP_LED	Warning Temp. LED, On: H	O
269	L3	LAMP_LED	Lamp Replace LED, On: H	O
346	L4	POWER_LED	Power LED, On: H	O
90	M1	XSTNDBYEN	Standby Mode On/Off for I/O Exp. On: H	O
183	M2	XRST	Reset for I/O Exp. L-H-L	O
268	M3	RST_STATUS_IN	Recognize AC IN/WatchDog, AC On:L WatchDog:H	I
345	M4	BUFFER_CS	Control for Chip Select Buffer of WatchDog, RST_STATUS_OUT:L	O
89	N1	CHO_RXD_PW	Dimmer Control,Normal: H Failure: L	I
192	N2	BOX_SW	PJ-Network Box Detection, Yes: H No: L	I
287	N3	SCL_3.3V	IIC Bus Control SCL,Active:L	I/O
344	N4	SDA_3.3V	IIC Bus Control SDA,Active:L	I/O
413	N5	IRM_RST	Reset for Gamma, S&H, Level Shift	O
474	N6	WAKEUP	I/O Exp. Wakeup	O
329	AC9	A22	Address 22	O
249	AD10	A23	Address 23	O
160	AE12	A20	Address 20	O
65	AF12	A21	Address 21	O

Parallel I/O Expander Port Functions (TE7783)

PIN	PORT	NAME	DESCRIPTION	I/O
1	DVss	DVss	-	-
2	P1	DDC_SW1	DVI/HDC DDC Switch 1 Normal: L, Connect: H	O
3	P2	DDC_SW2	Analog DDC Switch 2 Normal: L, Connect: H	O
4	P3	PC1/PC2_SW	PC1 Analog / PC2 AnalogSwitch H: PC1, L: PC2	O
5	P4	SIRST	Sil169 Reset H-L-H	O
6	P5	DVI_HPD	DVI Hot Plug Detection	O
7	P6	HDCP_IIC_SW	HDCP Authentication IIC Bus Switch, L: HDCP H: Others	O
8	P7	PJ_UPDATE	PJ-Net Forced Write Mode, Normal: H	O
9	P8	NET_H/L	PJNet Command Request	O
10	DVdd25	DVdd25	-	-
11	DVss	DVss	-	-
12	DVdd33	DVdd33	-	-
13	A6	A6	Address 6	I
14	A5	A5	Address 5	I
15	A4	A4	Address 4	I
16	A3	A3	Address 3	I
17	A2	A2	Address 2	I
18	A1	A1	Address 1	I
19	A0	A0	Address 0	I
20	XCS	XCS0	Chip Select	I
21	XRD	XRD	Read Enable	I
22	XWR	XWR	Write Enable	I
23	RSTPOL	RSTPOL	Polarity Select for Reset	I
24	DVss	DVss	-	-
25	DVdd33	DVdd33	-	-
26	D7	D7	Data Bus 7	I/O
27	D6	D6	Data Bus 6	I/O
28	D5	D5	Data Bus 5	I/O
29	D4	D4	Data Bus 4	I/O
30	D3	D3	Data Bus 3	I/O
31	D2	D2	Data Bus 2	I/O
32	D1	D1	Data Bus 1	I/O
33	D0	D0	Data Bus 0	I/O
34	WAKEUP	WAKEUP	Wakeup	O
35	DVss	DVss	-	-
36	RST	RST	Reset Input, Active:H	I
37	DVdd33	DVdd33	-	-
38	XI	XI	XTAL IN	I
39	XO	XO	XTAL OUT	O
40	DVss	DVss	-	-
41	DVdd33	DVdd33	-	-
42	XCS1	XCS1	Ext. Chip Select	O
43	XSTDBYEN	XSTDBYEN	Standby Mode On/Off	I
44	DVdd25	DVdd25	-	-
45	XINVALID	XINVALID	Serial Port Enable	I
46	DVss	DVss	-	-
47	XINT	XINT	Level Output	O
48	P21	SCART_SW	SCART Switch, SCART: H Others: L	O
49	P22	PROG_I/O	Configration Start Pin	O
50	P23	LENS_LR_SW	LensMoving Switch	O
51	P24	STB_I/O	FPGA Chip Select (Strobe)	O
52	P25	R/C_CTL1	Rear-RC Selection Switch, L: Rear	O
53	P26	R/C_CTL0	Front-RC Selection Switch, L: Front	O
54	P27	USB_VBUS	USB VBUS	I
55	P28	D+ PULL-UP	USB D+ Pull-up Control	O
56	DVss	DVss	-	-
57	VREFN	VREFN	Reference Voltage Output	
58	VCOM	VCOM	Opamp Bias Tap	
59	VREFP	VREFP	Reference Voltage Output	
60	Avss	Avss	-	-
61	AIN1	P-FAIL_1.8V	1.8V Power Failure Detection	AI
62	AIN2	P-FAIL_3.3V	3.3V Power Failure Detection	AI
63	AIN3	P-FAIL_1.2V	1.2V Power Failure Detection	AI
64	AIN4	P-FAIL_15V	15V Power Failure Detection	AI
65	AIN5	P-FAIL_5V	5V Power Failure Detection	AI
66	AIN6	P-FAIL_PJ	PJ-Net Power Failure Detection	AI
67	AIN7	THERM1	Temp Error Detection (Room)	AI
68	AIN8	THERM2	Temp Detection (TEMP C Blue Panel)	AI
69	AVdd33	AVdd33	-	-
70	DVdd33	DVdd33	-	-
71	XCS2	XCS2	Ext. Chip Select	O
72	P31	I/O_PJ_UART	PJ-Net Command (PW:TXD)	O

Control Port Functions

PIN	PORT	NAME	DESCRIPTION	I/O
73	P32	PJ_I/O_UART	PJ-Net Command (PW:RXD)	I
74	P33	M_TXD	PJ-Net AirMouse TXD	O
75	P34	Not Used		I
76	P35	LENS_LR_PWM	Lens Shift Left/Right PWM Output, L: Move, H: Stop	O
77	P36	LENS_UD_PWM	Lens Shift Up/Dwon PWM Output, L: Move, H: Stop	O
78	P37	DAC_PWM	PWM for Fan Control	O
79	P38	NET_SW	PJ-Net Power On/Off	O
80	UVss	Uvss	-	-
81	DMINUS	DMINUS	USB D-	I/O
82	DPLUS	DPLUS	USB D+	I/O
83	UVdd33	UVdd33	-	-
84	DVdd25	DVdd25	-	-
85	XCS3	XCS3	Ext. Chip Select	O
86	DVss	DVss	-	-
87	DVss	DVss	-	-
88	RSTMSK	RSTMSK	Internal Reset Mask	I
89	DVdd33	DVdd33	-	-
90	DVss	DVss	-	-
91	P11	SCLK_I/O	Configration Clock	O
92	P12	SDATA_I/O	Configration Data / FPGA Data Out	O
93	P13	SDTO_I/O	FPGA Data In	I
94	P14	VD_RST	Video Decoder(CXD3815) Reset L-H	O
95	DVss	DVss	-	-
96	DVss33	DVss33	-	-
97	P15	W_RC_SW	Wired RC Detectionm H: Not Inserted, L: Inserted	I
98	P16	PRODUCT_OPT		I
99	P17	INT_I/O	Configration Status	I
100	P18	DONE_I/O	Configration Process End Signal	I

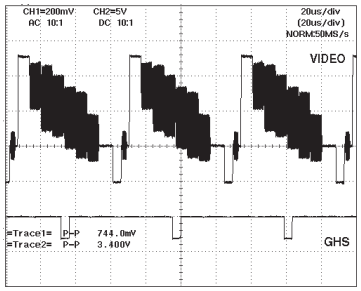
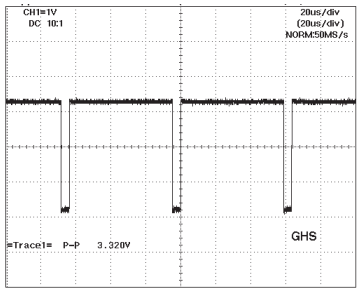
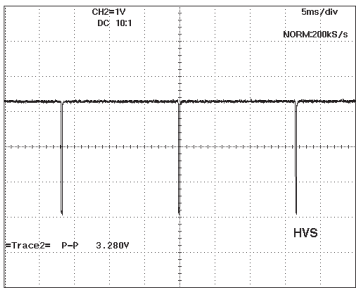
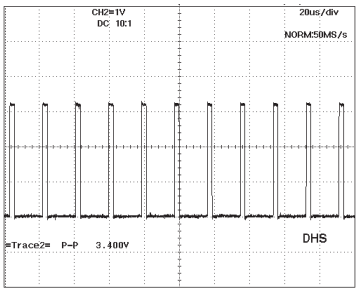
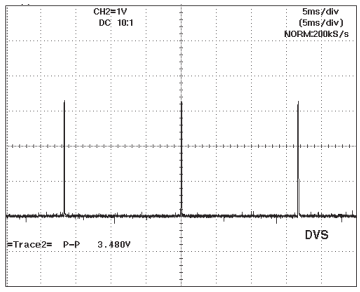
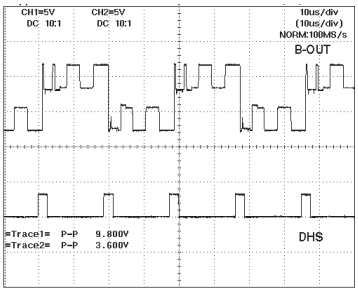
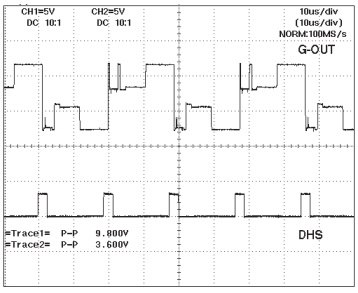
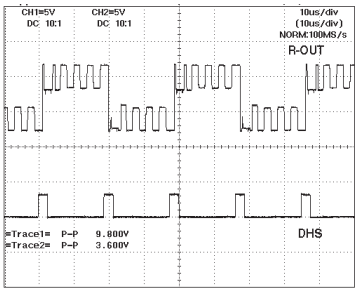
IIC Bus D/A Converter Port Functions (M62334)

PIN	PORT	NAME	DESCRIPTION	I/O
1	A1	FAN_DAC1	Fan Control Analog Output	AO
2	A2	FAN_DAC2	Fan Control Analog Output	AO
3	A3	FAN_DAC3	Fan Control Analog Output	AO
4	A4	FAN_DAC4	Fan Control Analog Output	AO
5	GND	GND	-	-
6	SDA	SDA	IIC BUS SDA(5V)	I/O
7	SCL	SCL	IIC BUS SCL(5V)	I/O
8	Vcc	Vcc	-	-

Parallel Bus Input Expander Port Functions (TC74LCX541)

PIN	PORT	NAME	DESCRIPTION	I/O
1	OE1	CS1	PW190 Chip Select	I
2	A1	THERM2_DETECT	Temp. Sensor 2 Detection, H: Error, L: Normal	I
3	A2	LENS_SENS_C	Lens Shift Sensor (Left-Right Center), H: Center, L: Not Center	I
4	A3	LENS_SENS_L	Lens Shift Sensor (Left), L: End	I
5	A4	LENS_SENS_R	Lens Shift Sensor (Right), L: End	I
6	A5	LENS_SENS_D	Lens Shift Sensor (Down), L: End	I
7	A6	LENS_SENS_U	Lens Shift Sensor (Up), L: End	I
8	A7	THERM1_DETECT	Temp. Sensor 1 Detection, H: Error, L: Normal	I
9	A8	S_SW	S-Terminal Detection, L: Inserted	I
10	GND	GND	-	-
11	Y8	D7	Data Bus 7	O
12	Y7	D6	Data Bus 6	O
13	Y6	D5	Data Bus 5	O
14	Y5	D4	Data Bus 4	O
15	Y4	D3	Data Bus 3	O
16	Y3	D2	Data Bus 2	O
17	Y2	D1	Data Bus 1	O
18	Y1	D0	Data Bus 0	O
19	OE2	OE2	Output Enable2	I
20	Vcc	Vcc	-	-

Waveform

VIDEO signal <VIDEO>	HSYNC signal <HOUT>	VSYNC signal <VOUT>
		
HSYNC signal <HS1>	**VSYNC signal <VS1>**	
		
R-S&H signal <TP35R>	**G-S&H signal <TP35G>**	**B-S&H signal <TP35B>**
		

Cleaning

After long periods of use, dust and other particles will accumulate on the LCD panel, prism, mirror, polarized glass, lens, etc., causing the picture to darken or color to blur. If this occurs, clean the inside of optical unit.

Remove dust and other particles using air spray. If dirt cannot be removed by air spray, disassemble and clean the optical unit.

Cleaning with air spray

1. Remove the cabinet top following to “Mechanical Disassemblies”.
2. Clean up the LCD panel and polarizing plate by using the air spray from the cabinet top opening.

Caution:
Use a commercial (inert gas) air spray designed for cleaning camera and computer equipment. Use a resin-based nozzle only. Be vary careful not to damage optical parts with the nozzle tip. Never use any kind of cleanser on the unit. Also, never use abrasive materials on the unit as this may cause irreparable damage.

Disassembly Cleaning

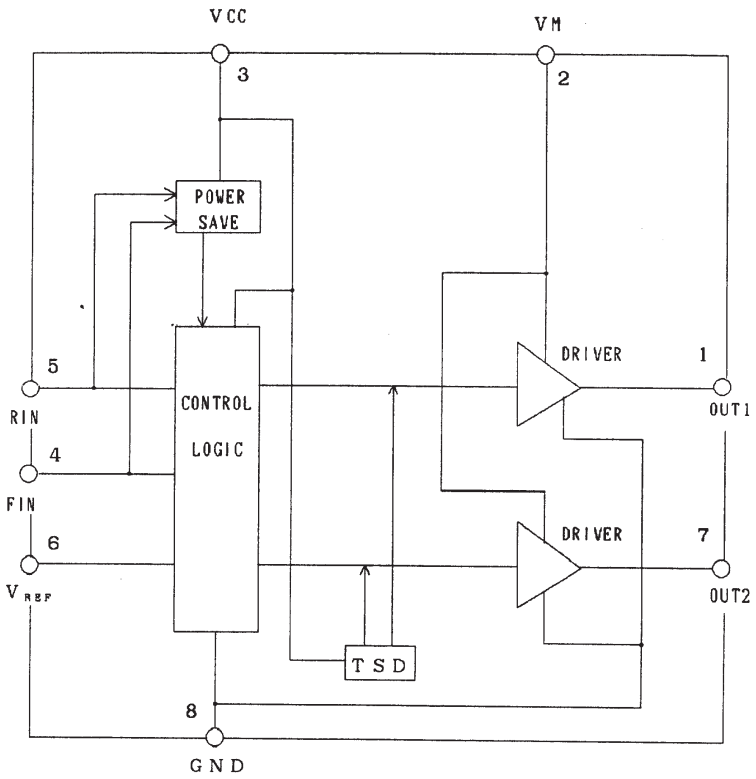
Disassembly cleaning method should only be performed when the unit is considerable dirty and cannot be sufficiently cleaned by air spraying alone.
Be sure to readjust the optical system after performing disassembly cleaning.

1. Remove the cabinet top and main units following to “Mechanical Disassemblies”.
2. Remove the optical base top following to “Optical Unit Disassemblies”. If the LCD panel needs cleaning, remove the LCD panel unit following to “LCD panel replacement”.
3. Clean the optical parts with a soft cloth. Clean extremely dirty areas using a cloth moistened with alcohol.

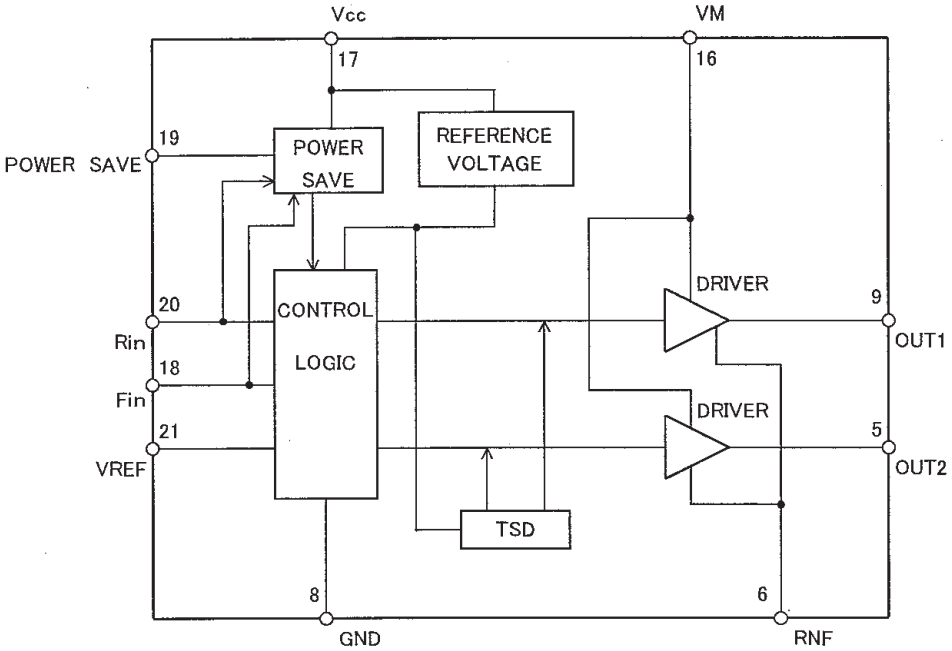
Caution:
The surface of the optical components consists of multiple dielectric layers with varying degrees of refraction. Never use organic solvents (thinner, etc.) or any kind of cleanser on these components.
Since the LCD panel is equipped with an electronic circuit, never use any liquids (water, etc.) to clean the unit. Use of liquid may cause the unit to malfunction.

IC Block Diagrams

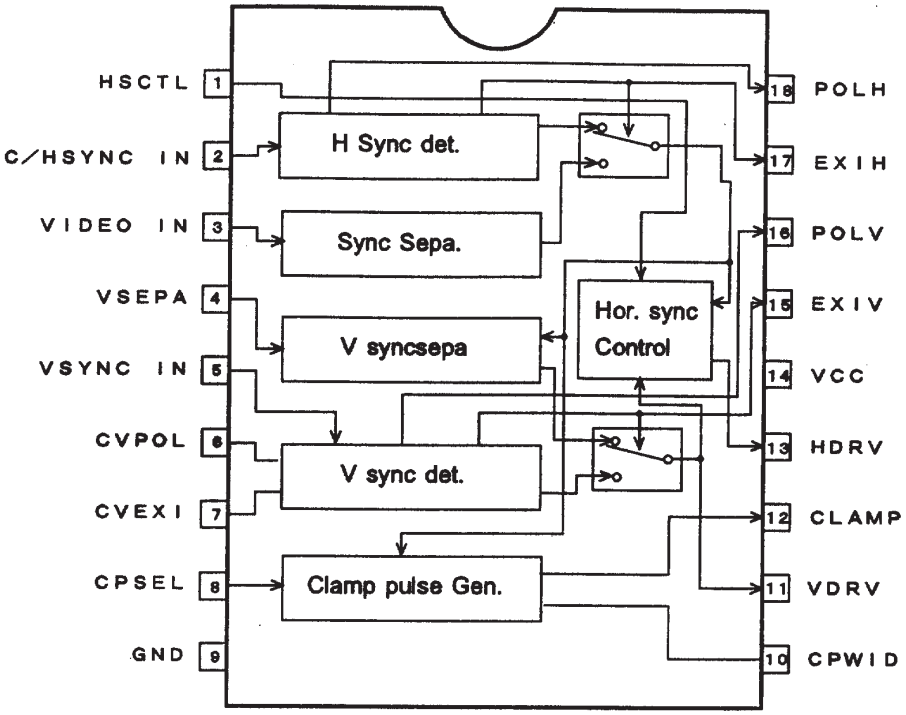
● BA6287 <Motor Drive Focus,Zoom, IC5501,IC5551>



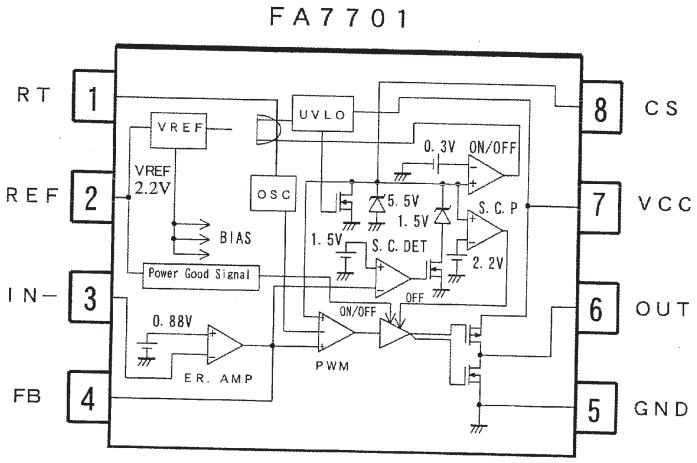
● BA6920<Motor Drive Lens Shift Up/Down,Left/Right, IC6531,IC6561>



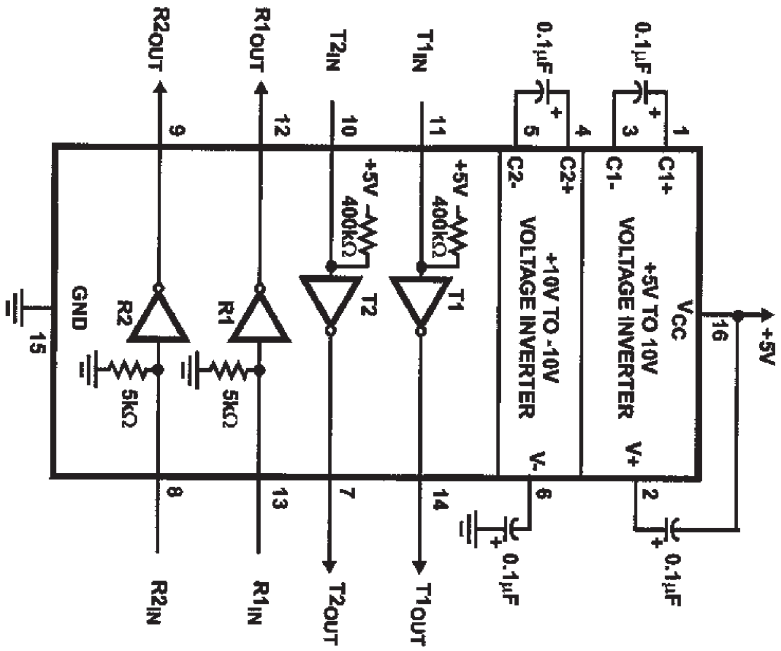
● BA7078 <Sync Seperator, IC5321>



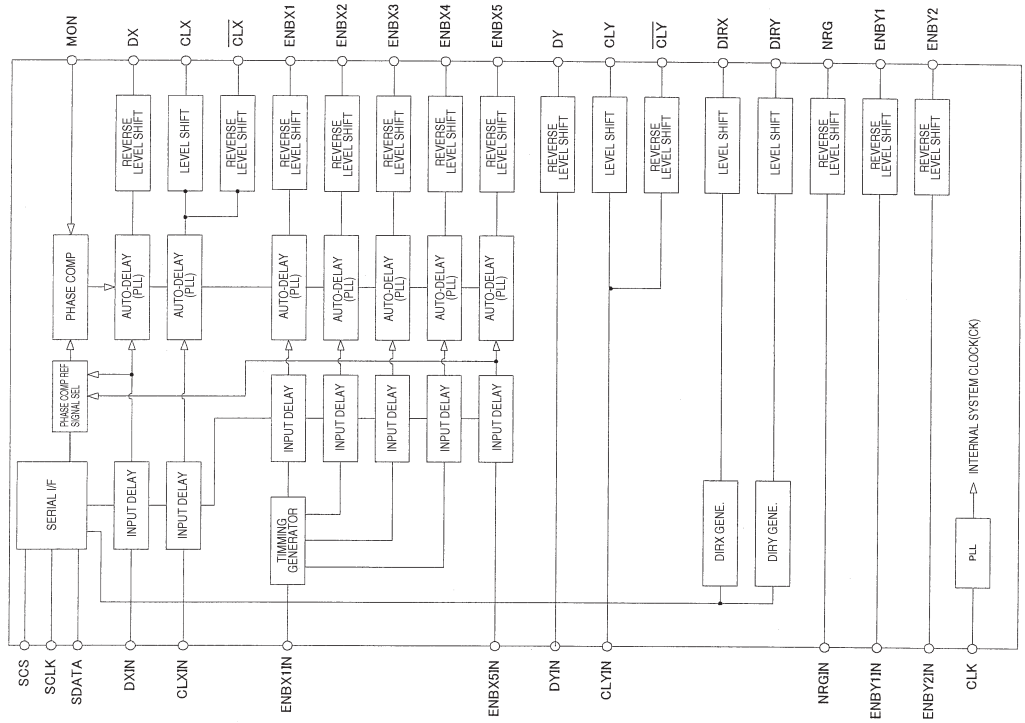
● FA7701V <Switching Controller, IC5641>



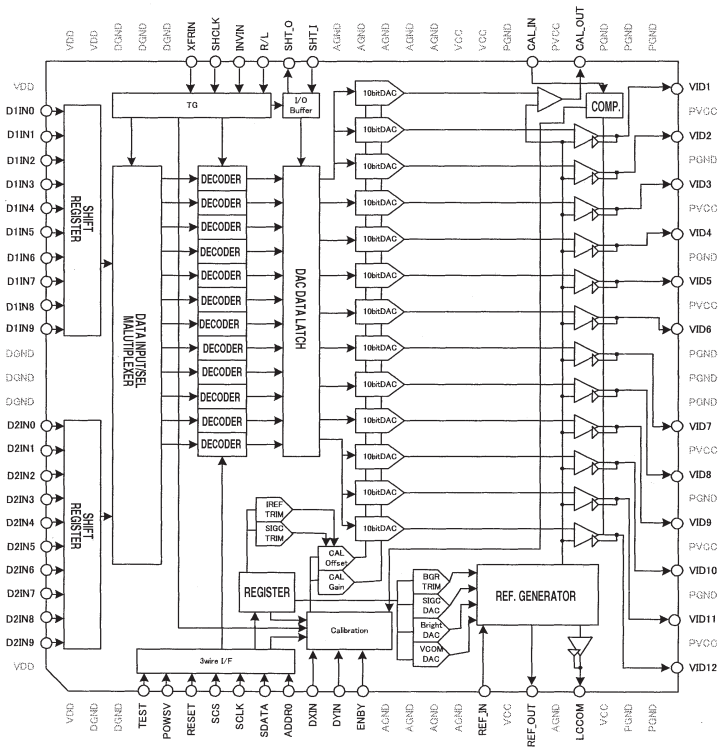
● HIN202EIB <RS-232C Driver, IC3801>



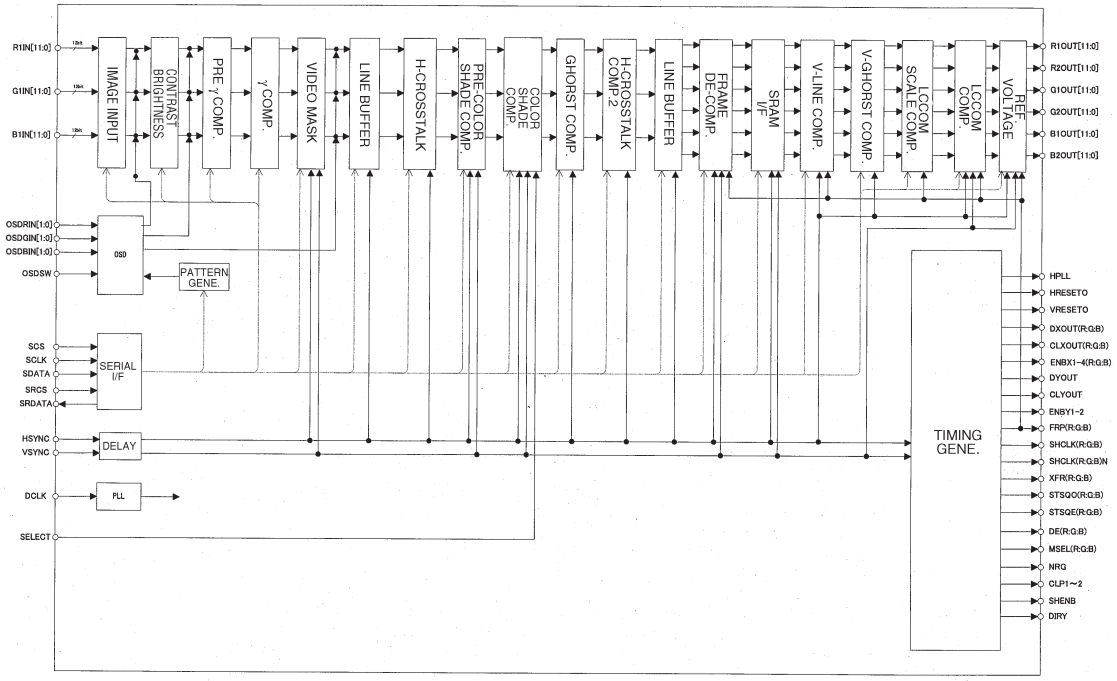
● L3E01060 <Level Shift, IC2501,IC2531,IC2561>



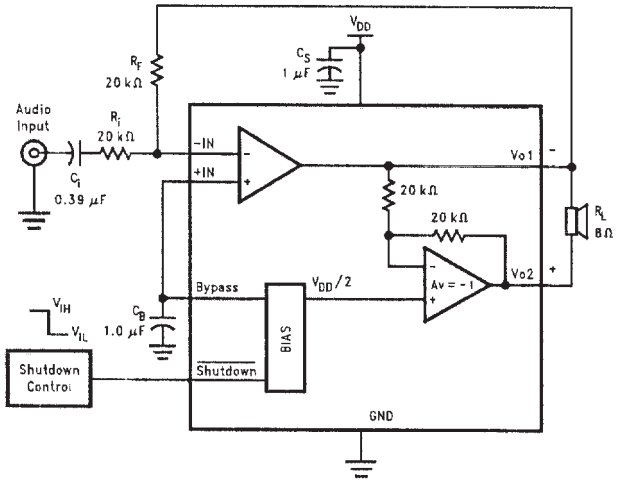
● L3E06150 <Sample & Hold, IC501,IC531,IC561>



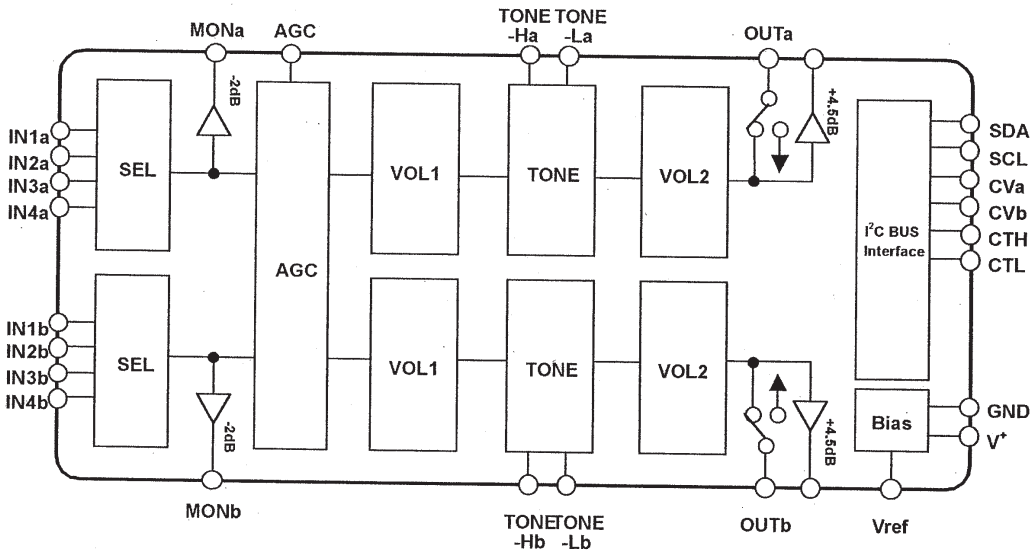
● L3E07111 <Digital Gamma Shift & LCD Driver, IC401>



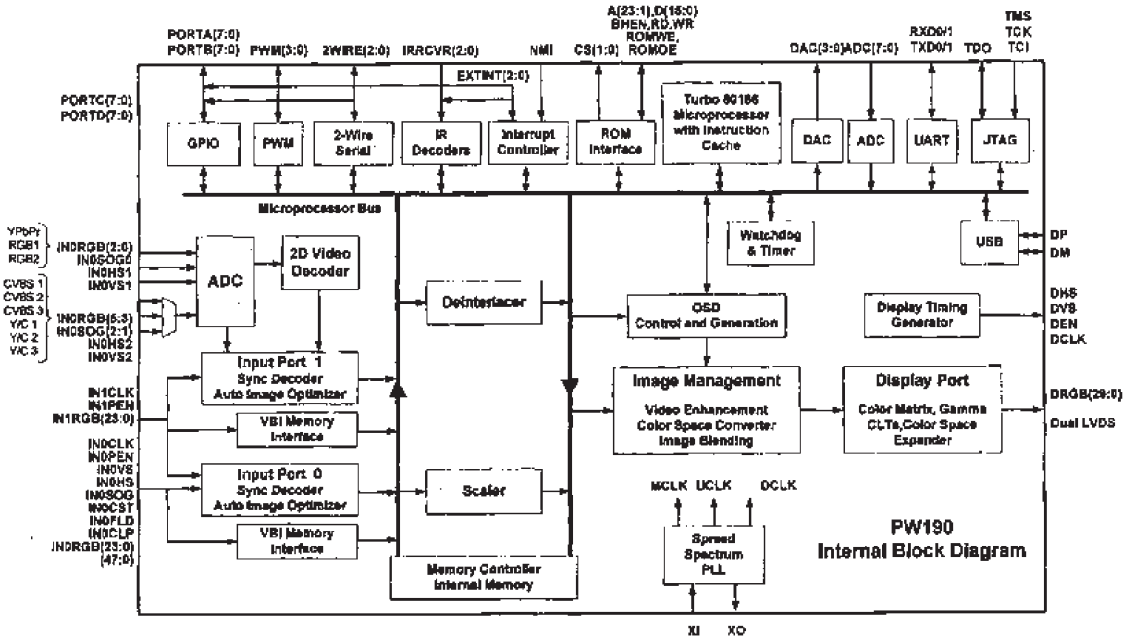
● LM4889 <Audio Output, IC5121>



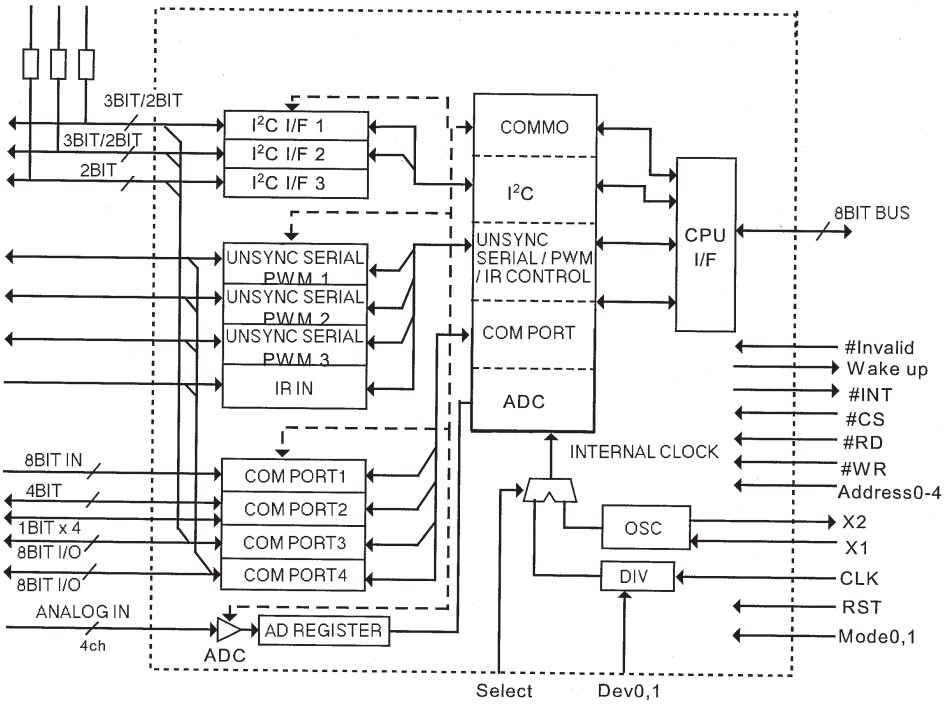
● NJW1141 <Audio Control, IC5001>



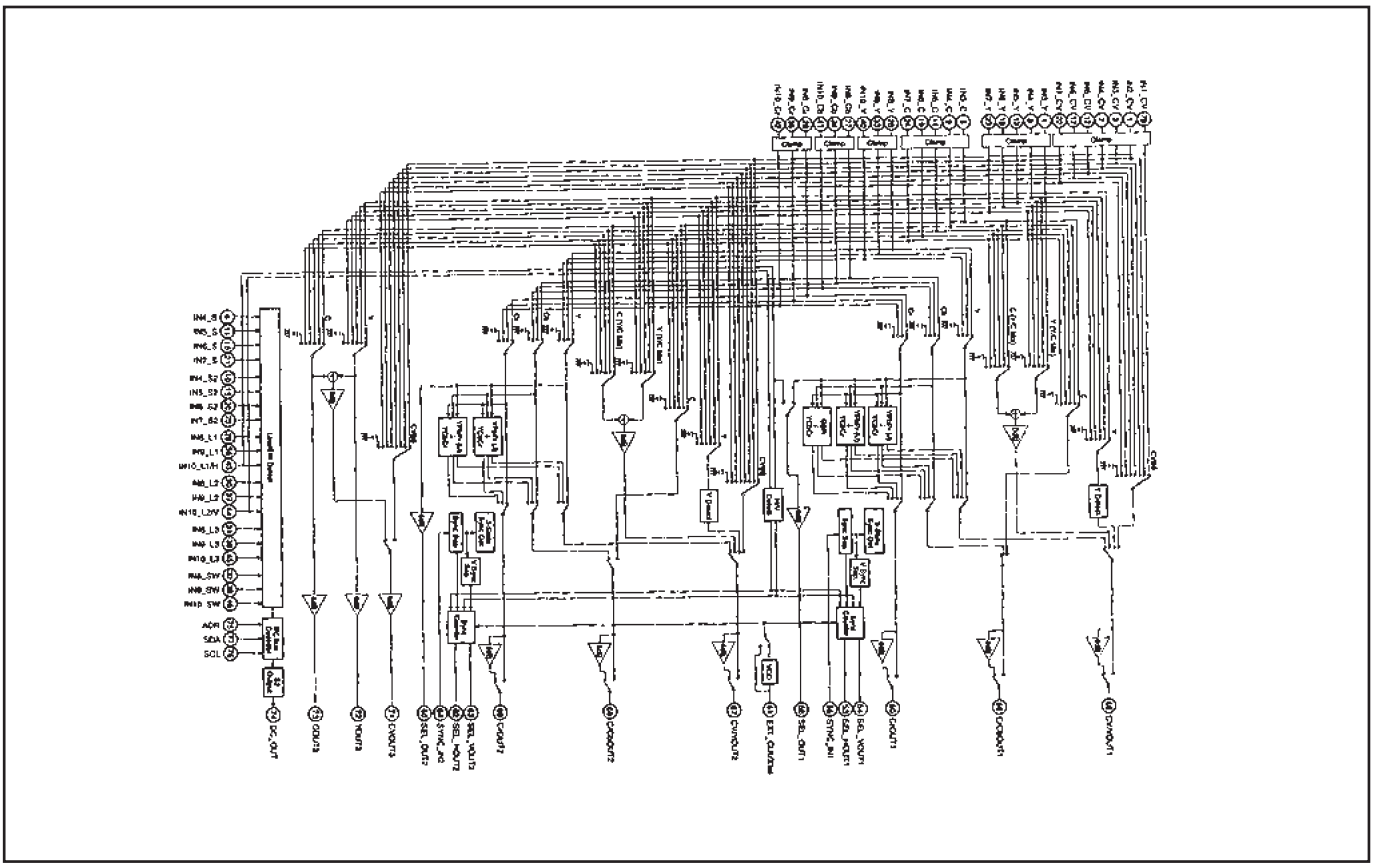
● PW190 <Scan Converter & System Control, IC301>



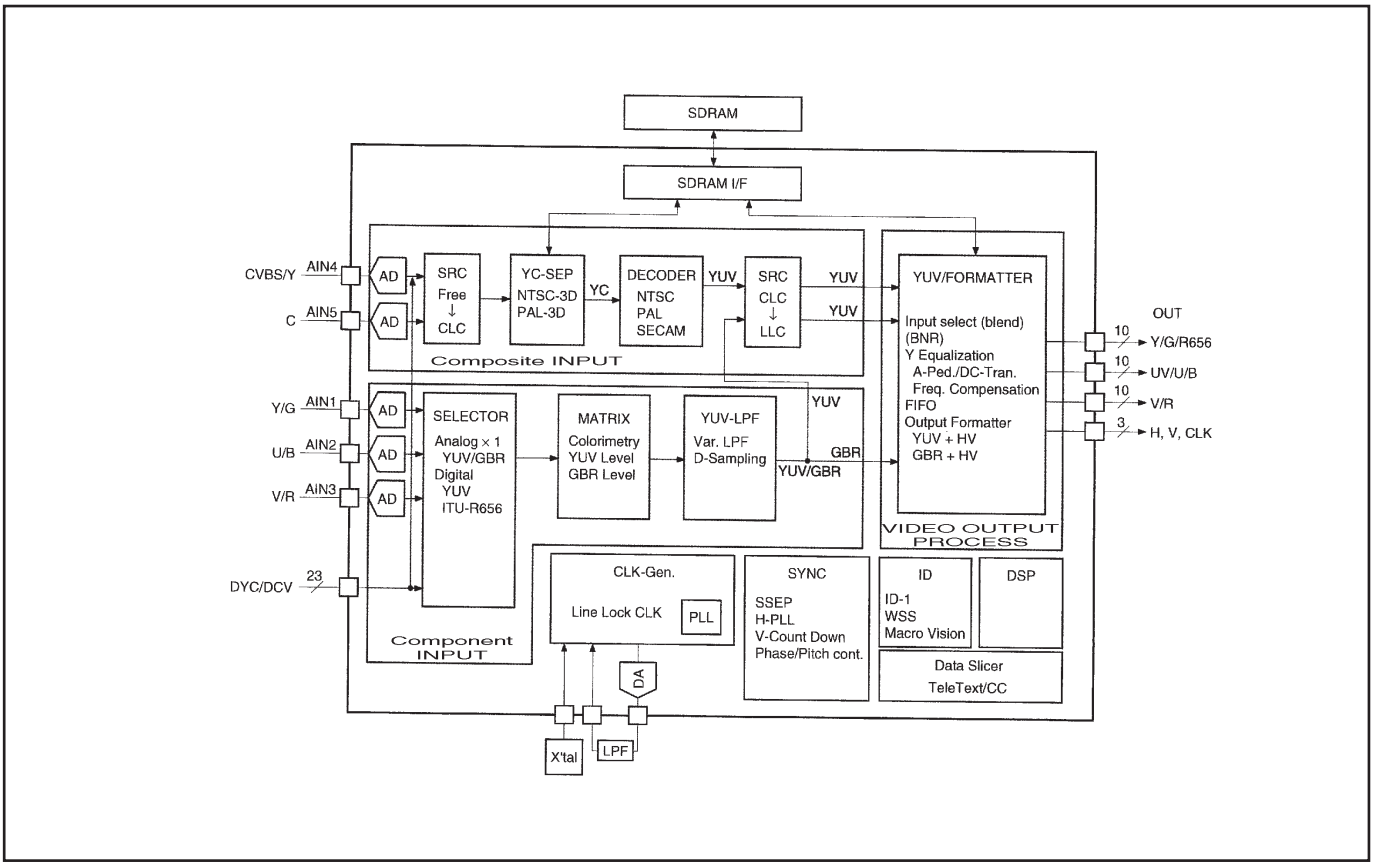
● TE7783 <Parallel I/O Expander, IC1801>



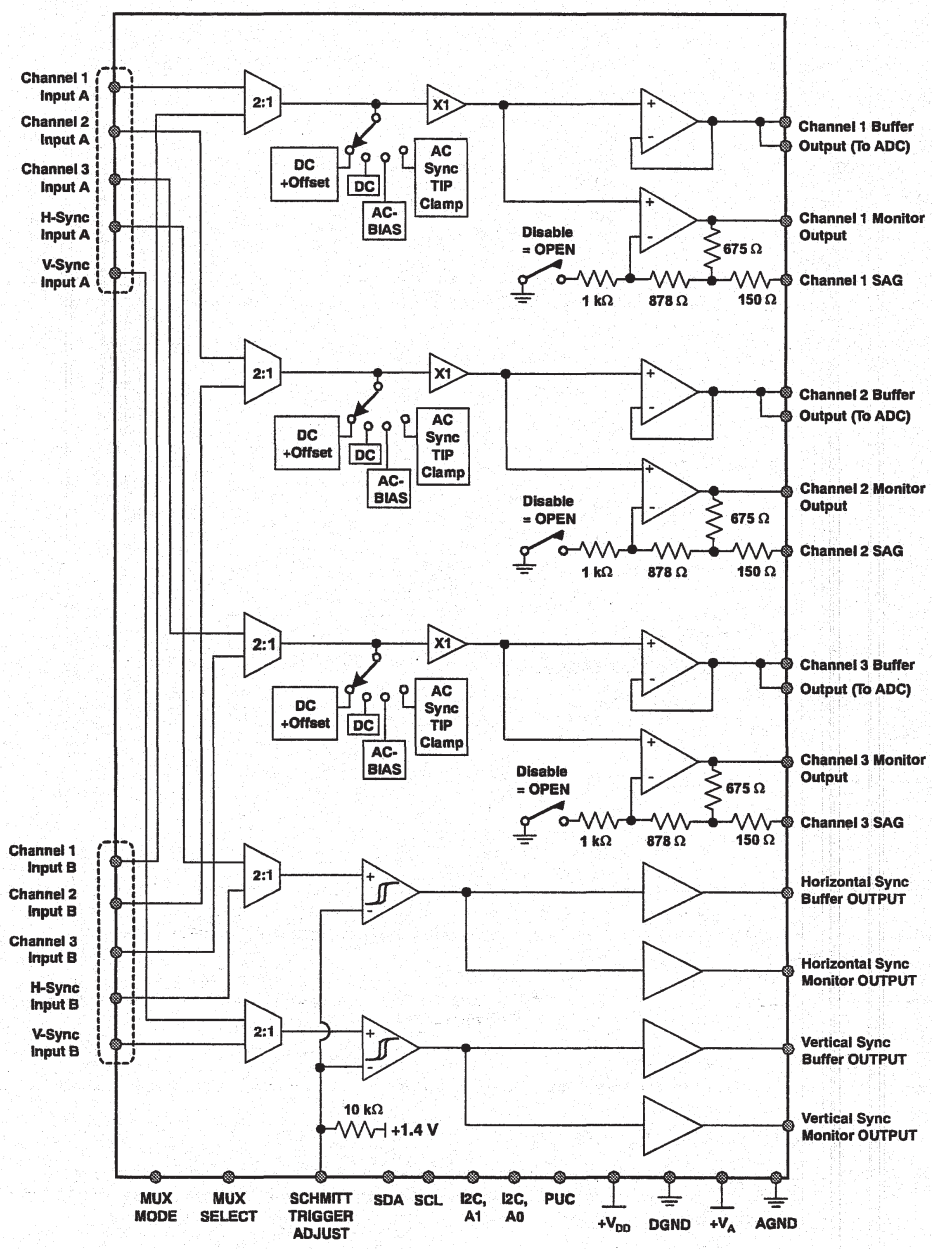
● CXA2229 <Video SW&Sync, IC101>



● CXD3815 <Video Decoder, IC3101>



● THS7347IPHPR <PC1/PC2-SW, IC5201>



NOTE: The I^2C address of the THS7347 is 01011(A1)(A0)(R/$\overline{W}$).

Electrical Parts List

Product safety should be considered when a component replacement is made in any area of a projector.
Components indicated by a ⚠ mark in this parts list and the circuit diagram show components whose value have special significance to product safety. It is particularly recommended that only parts specified on the following parts list be used for components replacement pointed out by the mark.

● Read Description in the parts list

Read description in the Capacitor and Resistor as follows:

CAPACITOR CERAMIC 100P K 50V

- 50V — Rated Voltage
- K — Tolerance Symbols:

Less than 10pF

A : Not specified	B : ±0.1pF	C : ±0.25pF
D : ±0.5pF	E : +0 -1pF	F : ±1PF
G : ±2pF	H : +0.1 -0pF	L : +0 -0.1pF
R : ±0.25 -0pF	S : +0-0.25pF	

More than 10pF

A : Not specified	B : ±0.1%	C : ±0.25%
D : ±0.5%	F : ±1%	G : ±2%
H : ±3%	J : ±5%	K : ±10%
L : ±15%	M : ±20%	N : ±30%
P : +100-0%	Q : +30-10%	T : +50-10%
U : +75-10%	V : +20-10%	W : +100-10%
X : +40-20%	Y : +150-10%	Z : +80-20%

- 100P — Rated value: P=pico farad, U=micro farad
- CERAMIC — Material:

CERAMIC	Ceramic
MT-PAPER	Metallized Paper
POLYESTER	Polyester
MT-POLYEST	Metallized Polyester
POLYPRO	Polypropylene
MT-POLYPRO	Metallized Polypropylene
COMPO FILM	Composite film
MT-COMPO	Metallized Composite
STYRENE	Styrene
TA-SOLID	Tantalum Oxide Solid Electrolytic
AL-SOLID	Aluminium Solid Electrolytic
ELECT	Aluminum Foil Electrolytic
NP-ELECT	Non-polarised Electrolytic
OS-SOLID	Aluminium Solid with Organic Semiconductive Electrolytic
POS-SOLID	Polymerized Organic Semiconductive
DL-ELECT	Double Layered Electrolytic
PPS-FILM	Polyphenylene Sulfide Film
MT-PPS-FILM	Metalized Polyphenylene Sulfide Film
MT-PEN-FILM	Metalized Polyethylenenaphthalate Film
CAPACITOR	Other

RESISTOR CARBON 4.7K J A 1/4W

- 1/4W — Rated Wattage
- A — Performance Symbols:
  A: General B: Non flammable Z: Low noise
  Other: Temperature coefficient

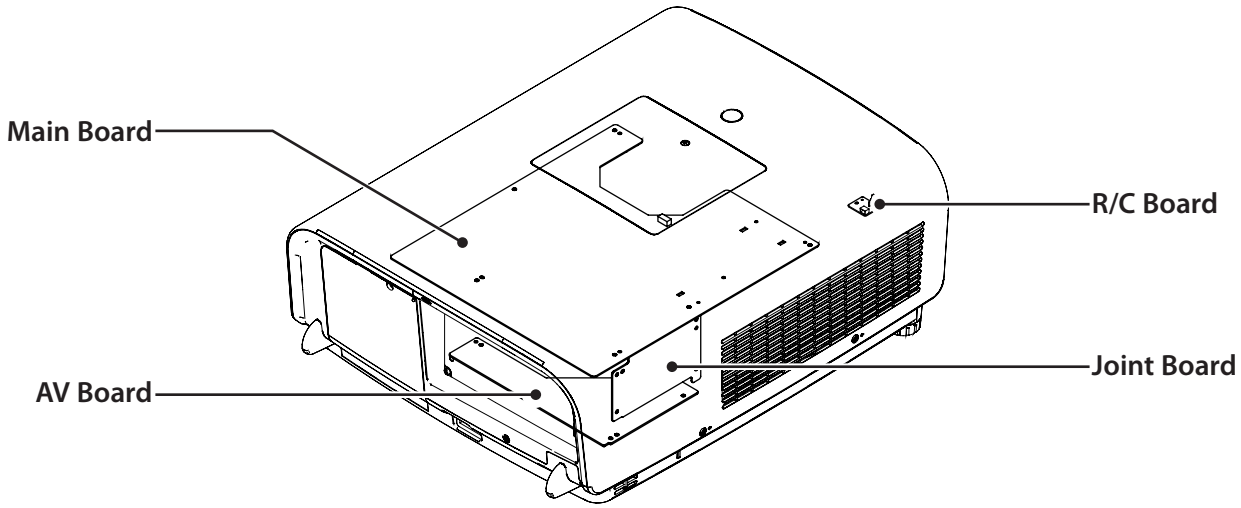
T: ±10ppm/°C	U: ±25ppm/°C	C: ±50ppm/°C
D: ±100ppm/°C	E: ±200ppm/°C	F: ±250ppm/°C
G: ±350ppm/°C	H: ±1000ppm/°C±10%	W: ±1200ppm/°C±10%
Y: ±1400ppm/°C±10%	J: ±2000ppm/°C±10%	K: ±2400ppm/°C±10%
L: ±2700ppm/°C±10%	M: ±3000ppm/°C±10%	N: ±3300ppm/°C±10%
P: ±3600ppm/°C±10%	Q: ±3900ppm/°C±10%	R: ±4200ppm/°C±10%
S: ±4300ppm/°C±10%	V: ±4500ppm/°C±10%	X: ±8000ppm/°C±10%

- J — Tolerance Symbols:
  A: ±0.05% B: ±0.1% C: ±0.25% D: ±0.5%
  F: ±1% G: ±2% J: ±5% K: ±10%
  M: ±20% P: +5-15% Z: 0 ohm
- 4.7K — Rated value, ohms:
  K: 1,000, M: 1,000,000
- CARBON — Material:

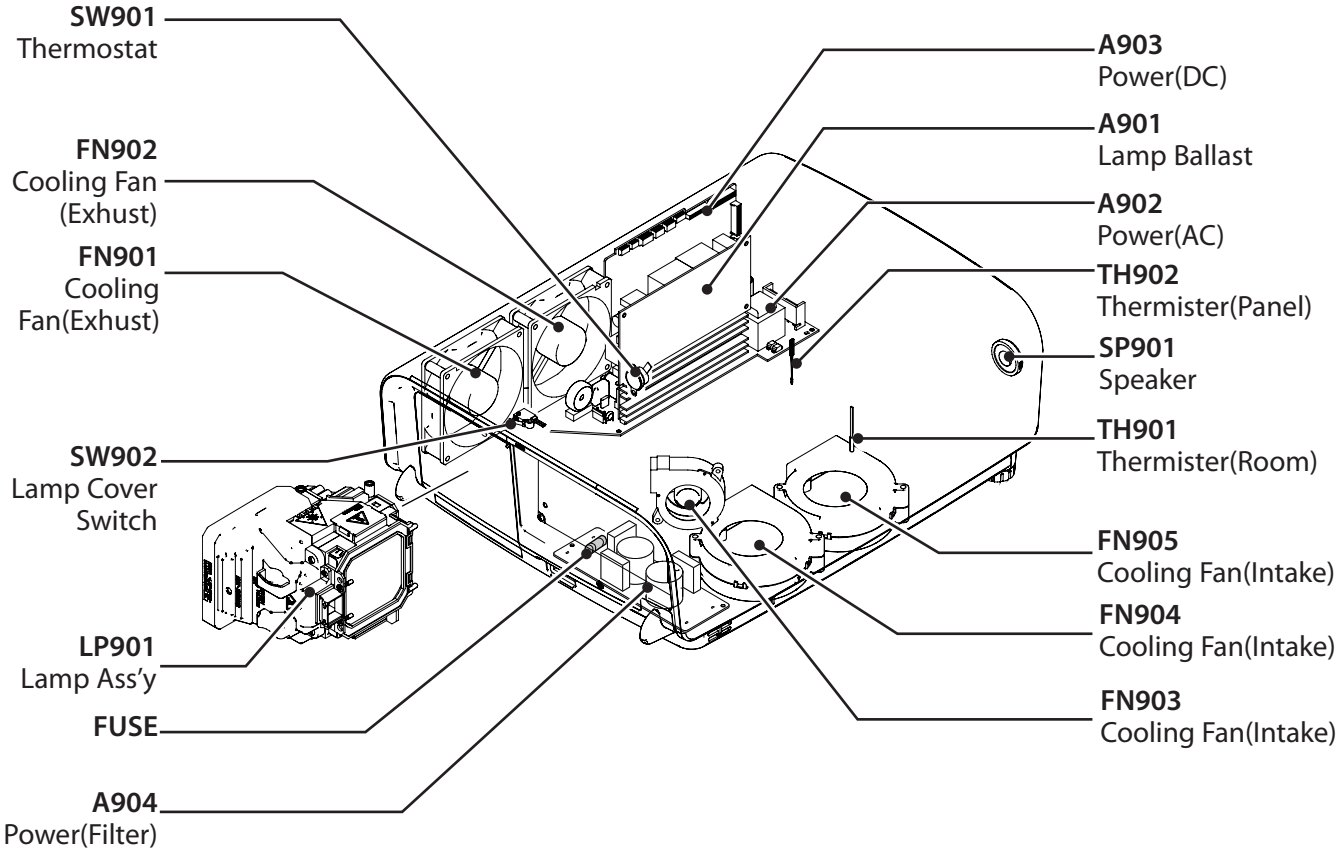
CARBON	Carbon
MT-FILM	Metal Film
OXIDE-MT	Oxide Metal Film
SOLID	Composition
MT-GLAZE	Metal Glaze
WIRE WOUND	Wire Wound
CERAMIC RES.	Ceramic
FUSIBLE RES.	Fusible
RESISTOR	Other

Electrical Parts Location

● Assemblied Boards



● Out Of Circuit Board



Electrical Parts List

Note: Parts order must contain Chassis No., Part No., and Descriptions.

Key No.	Part No.	Description
ASSEMBLED BOARDS		
⚠	**610 335 3081**	**ASSY,PWB,MAIN KP3AL**
⚠	**610 335 3128**	**ASSY,PWB,A/V KP3AL**
⚠	**610 335 3166**	**ASSY,PWB,NETWORK JOINT KP3AL**
⚠	**610 335 3135**	**ASSY,PWB,R/C. FRONT KP3AL**
OUT OF CIRCUIT BOARDS		
L901	945 003 3835	CORE,FERRITE
L902	945 003 3835	CORE,FERRITE
LP901	610 335 8093	COMPL,OPTICAL LMP-KP3AL
03	945 003 3811	CORE,FERRITE
⚠ A901	645 093 0980	UNIT,BALLAST
⚠ BLST&LMP	610 339 2325	CABLE,BALLAST SERVICE KP3AL
⚠ A902	645 093 0089	UNIT,POWER(AC)
⚠ A903	645 093 0881	UNIT,POWER(DC)
⚠ A904	645 093 0096	UNIT,POWER(FILTER)
⚠ FN901	945 088 7049	MOTOR,FAN DC 3.36W
⚠ FN902	945 088 7063	MOTOR,FAN DC 4.20W
⚠ FN903	645 093 8481	MOTOR,BLW DC 2.76W
⚠ FN904	645 093 8498	MOTOR,BLW DC 15.0W
⚠ FN905	645 093 8504	MOTOR,BLW DC 15.0W
SP901	945 078 6106	SPEAKER,8
⚠ SW901	645 089 4879	THERMOSTATS
⚠ SW902	645 089 4916	SWITCH,PUSH
TH901	945 079 7775	SWITCH,THERMAL,THERMISTOR
TH902	945 079 7768	SWITCH,THERMAL,THERMISTOR
⚠ FUSE	323 027 2605	FUSE 250V 10A
610 335 3081 ASSY,PWB,MAIN KP3AL		
TRANSISTOR		
Q1001	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q1051	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q1052	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
	405 220 3115	TR ISA1235AC1E
	405 220 3016	TR ISA1235AC1F
Q1061	305 217 5019	TR RN1117 TE85L
Q1351	305 211 1918	TR RJU002N06
Q1352	305 211 1918	TR RJU002N06
Q151	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
	405 220 3115	TR ISA1235AC1E
	405 220 3016	TR ISA1235AC1F
Q152	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q153	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
	405 220 3115	TR ISA1235AC1E
	405 220 3016	TR ISA1235AC1F
Q171	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
	405 220 3115	TR ISA1235AC1E
	405 220 3016	TR ISA1235AC1F
Q172	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
	405 220 3115	TR ISA1235AC1E
	405 220 3016	TR ISA1235AC1F
Q173	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
	405 220 3115	TR ISA1235AC1E
	405 220 3016	TR ISA1235AC1F
Q2801	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q2802	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q2851	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q2852	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R

Electrical Parts List

Key No.	Part No.	Description
	305 173 9915	TR 2SC3928A1S
Q2853	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q2854	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q2856	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q2857	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q2858	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
	405 220 3115	TR ISA1235AC1E
	405 220 3016	TR ISA1235AC1F
Q3101	305 211 1918	TR RJU002N06
Q3102	305 211 1918	TR RJU002N06
Q3201	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
	405 220 3115	TR ISA1235AC1E
	405 220 3016	TR ISA1235AC1F
Q3202	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q321	305 211 1918	TR RJU002N06
Q322	305 211 1918	TR RJU002N06
Q3221	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q3222	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
	405 220 3115	TR ISA1235AC1E
	405 220 3016	TR ISA1235AC1F
Q3261	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
	405 220 3115	TR ISA1235AC1E
	405 220 3016	TR ISA1235AC1F
Q3262	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
	405 220 3115	TR ISA1235AC1E
	405 220 3016	TR ISA1235AC1F
Q331	305 211 1918	TR RJU002N06
Q3802	305 211 1918	TR RJU002N06
Q4621	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q4811	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q4812	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
	405 220 3115	TR ISA1235AC1E
	405 220 3016	TR ISA1235AC1F
Q5121	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5141	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5151	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5221	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
	405 220 3115	TR ISA1235AC1E
	405 220 3016	TR ISA1235AC1F
Q5231	305 211 1918	TR RJU002N06
Q5232	305 211 1918	TR RJU002N06
Q5251	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
	405 220 3115	TR ISA1235AC1E
	405 220 3016	TR ISA1235AC1F

Electrical Parts List

Key No.	Part No.	Description
Q5252	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
	405 220 3115	TR ISA1235AC1E
	405 220 3016	TR ISA1235AC1F
Q5253	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
	405 220 3115	TR ISA1235AC1E
	405 220 3016	TR ISA1235AC1F
Q5271	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
	405 220 3115	TR ISA1235AC1E
	405 220 3016	TR ISA1235AC1F
Q5272	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
	405 220 3115	TR ISA1235AC1E
	405 220 3016	TR ISA1235AC1F
Q5273	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
	405 220 3115	TR ISA1235AC1E
	405 220 3016	TR ISA1235AC1F
Q5281	305 217 5019	TR RN1117 TE85L
Q5301	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5302	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
	405 220 3115	TR ISA1235AC1E
	405 220 3016	TR ISA1235AC1F
Q5303	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
	405 220 3115	TR ISA1235AC1E
	405 220 3016	TR ISA1235AC1F
Q5304	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5501	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5551	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5661	305 217 8515	TR RSQ025P03-TR
Q6531	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q6561	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q7241	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q8111	305 217 5019	TR RN1117 TE85L
Q861	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
INTEGRATED CIRCUIT		
IC1061	310 517 6809	IC TC74LVX4053FT
IC1081	309 462 0327	IC 24LC21AT/SN
IC1301	310 616 3402	IC PST413A300NR
IC1391	310 538 4907	IC 24LC64T-I/SNG
IC1401	410 643 5100	IC PQ070XNB1ZPH
IC1411	410 642 7303	IC PQ015YZ01ZPH
IC1801	309 671 7817	IC TE7783APF
	309 633 6117	IC TE7783PF
IC1821	310 595 8009	IC PQ1LAX95MSPQ
IC1881	310 362 6504	IC TC74LCX541FT
IC191	410 643 5100	IC PQ070XNB1ZPH
IC2811	310 596 0002	IC 74LVC1G125GW/G,125
IC301	309 670 8419	IC PW190-10L
IC3801	309 652 0714	IC HIN202EIBNZ-T
IC391	310 614 6207	IC TC7SZ14FU(TE85L,F)
IC402	309 487 5727	IC TC7SZ125FU
IC4101	310 550 2202	IC EDS6416AHTA-75-E
IC4131	410 643 5100	IC PQ070XNB1ZPH
IC4141	310 595 8009	IC PQ1LAX95MSPQ
IC4151	410 643 5100	IC PQ070XNB1ZPH
IC4161	310 595 8009	IC PQ1LAX95MSPQ
IC4801	309 464 1411	IC TC74ACT14FT
IC4891	310 595 8009	IC PQ1LAX95MSPQ
IC5101	309 461 7822	IC PQ20WZ11
IC5111	410 643 5100	IC PQ070XNB1ZPH
IC5121	309 594 1916	IC LM4889MM
IC5281	309 400 7118	IC TC7W53FU-(TE12L)
IC5301	309 461 7317	IC AD8057ARTZ-REEL7
IC5321	309 484 2016	IC BA7078AF-E2
IC5341	309 462 2311	IC TC7SZ04FU-TE852
IC5351	309 462 2311	IC TC7SZ04FU-TE852

Electrical Parts List

Key No.	Part No.	Description
IC5361	310 337 0605	IC HD74LVC14T
IC5501	309 362 1127	IC BA6287F
IC5551	309 362 1127	IC BA6287F
IC5601	410 643 5100	IC PQ070XNB1ZPH
IC5621	310 595 8009	IC PQ1LAX95MSPQ
IC5641	309 531 6229	IC FA7701V-TE1
IC5691	310 595 8009	IC PQ1LAX95MSPQ
IC6501	309 400 7118	IC TC7W53FU-(TE12L)
IC6531	309 537 6213	IC BA6920FP-YE2
IC6541	309 400 7118	IC TC7W53FU-(TE12L)
IC6561	309 537 6213	IC BA6920FP-YE2
IC7201	310 605 1709	IC XC3S50-4TQG144C
IC7281	410 643 5100	IC PQ070XNB1ZPH
IC7291	410 643 5100	IC PQ070XNB1ZPH
IC7821	310 337 0605	IC HD74LVC14T
IC8001	410 641 3801	IC SII17169CTU
IC801	410 643 0907	IC S29GL064A90TFIR30-0816
IC8101	309 558 7213	IC 24C02CT-I/SNG
IC8121	310 479 4004	IC TC7WBD125AFK
IC8131	309 400 7118	IC TC7W53FU-(TE12L)
IC8141	309 400 7118	IC TC7W53FU-(TE12L)
IC861	310 362 6504	IC TC74LCX541FT
IC8801	310 595 8009	IC PQ1LAX95MSPQ
CAPACITOR		
C1001	303 409 3426	CERAMIC 0.1U K 16V
C101	303 376 6311	CERAMIC 0.47U K 10V
C102	303 376 6311	CERAMIC 0.47U K 10V
C103	303 433 1112	CERAMIC 1U K 10V
C1031	303 433 1112	CERAMIC 1U K 10V
C1032	303 433 1112	CERAMIC 1U K 10V
C1033	303 433 1112	CERAMIC 1U K 10V
C104	303 376 6311	CERAMIC 0.47U K 10V
C1051	303 433 1112	CERAMIC 1U K 10V
C1052	303 433 1112	CERAMIC 1U K 10V
C1053	303 433 1112	CERAMIC 1U K 10V
C106	303 409 3426	CERAMIC 0.1U K 16V
C1061	303 409 3426	CERAMIC 0.1U K 16V
C107	303 305 8515	CERAMIC 15P J 50V
C108	303 409 3426	CERAMIC 0.1U K 16V
C1081	303 409 3426	CERAMIC 0.1U K 16V
C109	303 409 3426	CERAMIC 0.1U K 16V
C1091	303 358 3215	CERAMIC 10U K 6.3V
	303 368 7319	CERAMIC 10U K 6.3V
C1092	303 394 1312	ELECT 100U M 6.3V
	303 387 4917	ELECT 100U M 6.3V
C111	303 409 3426	CERAMIC 0.1U K 16V
C112	303 409 3426	CERAMIC 0.1U K 16V
C113	303 409 3426	CERAMIC 0.1U K 16V
C114	303 409 3426	CERAMIC 0.1U K 16V
C116	303 409 3426	CERAMIC 0.1U K 16V
C117	303 409 3426	CERAMIC 0.1U K 16V
C118	303 409 3426	CERAMIC 0.1U K 16V
C119	303 409 3426	CERAMIC 0.1U K 16V
C121	303 394 1312	ELECT 100U M 6.3V
	303 387 4917	ELECT 100U M 6.3V
C122	303 394 1312	ELECT 100U M 6.3V
	303 387 4917	ELECT 100U M 6.3V
C1301	303 398 4111	ELECT 47U M 16V
	303 387 6515	ELECT 47U M 16V
C1302	303 409 3426	CERAMIC 0.1U K 16V
C1304	303 441 9810	CERAMIC 0.01U K 50V
C1306	303 276 1317	CERAMIC 1000P K 50V
C131	303 407 1018	CERAMIC 4.7U K 6.3V
	303 383 5215	CERAMIC 4.7U K 6.3V
C132	303 407 1018	CERAMIC 4.7U K 6.3V
	303 383 5215	CERAMIC 4.7U K 6.3V
C133	303 376 6311	CERAMIC 0.47U K 10V
C134	303 441 9810	CERAMIC 0.01U K 50V
C136	303 407 1018	CERAMIC 4.7U K 6.3V
	303 383 5215	CERAMIC 4.7U K 6.3V
C137	303 407 1018	CERAMIC 4.7U K 6.3V
	303 383 5215	CERAMIC 4.7U K 6.3V
C1391	303 409 3426	CERAMIC 0.1U K 16V
C1401	303 433 1112	CERAMIC 1U K 10V
C1402	303 358 3215	CERAMIC 10U K 6.3V
	303 368 7319	CERAMIC 10U K 6.3V
C1403	303 433 1112	CERAMIC 1U K 10V
C141	303 407 1018	CERAMIC 4.7U K 6.3V
	303 383 5215	CERAMIC 4.7U K 6.3V
C1411	303 433 1112	CERAMIC 1U K 10V
C1412	303 409 3426	CERAMIC 0.1U K 16V
C1413	303 394 1312	ELECT 100U M 6.3V
	303 387 4917	ELECT 100U M 6.3V
C142	303 376 6311	CERAMIC 0.47U K 10V
C143	303 376 6311	CERAMIC 0.47U K 10V
C146	303 396 9514	CERAMIC 2.2U K 10V
	303 382 7814	CERAMIC 2.2U K 10V
C147	303 396 9514	CERAMIC 2.2U K 10V
	303 382 7814	CERAMIC 2.2U K 10V
C148	303 396 9514	CERAMIC 2.2U K 10V
	303 382 7814	CERAMIC 2.2U K 10V
C151	303 409 3426	CERAMIC 0.1U K 16V
C152	303 409 3426	CERAMIC 0.1U K 16V
C171	303 409 3426	CERAMIC 0.1U K 16V
C172	303 409 3426	CERAMIC 0.1U K 16V
C173	303 409 3426	CERAMIC 0.1U K 16V
C1801	303 381 5316	ELECT 100U M 16V
	303 369 3211	ELECT 100U M 16V
C1802	303 276 2819	CERAMIC 18P J 50V
C1803	303 276 2819	CERAMIC 18P J 50V
C1806	303 409 3426	CERAMIC 0.1U K 16V
C1808	303 409 3426	CERAMIC 0.1U K 16V
C1809	303 409 3426	CERAMIC 0.1U K 16V
C1811	303 409 3426	CERAMIC 0.1U K 16V
C1812	303 409 3426	CERAMIC 0.1U K 16V
C1813	303 433 1112	CERAMIC 1U K 10V
C1814	303 433 1112	CERAMIC 1U K 10V
C1816	303 433 1112	CERAMIC 1U K 10V
C1817	303 433 1112	CERAMIC 1U K 10V
C1818	303 433 1112	CERAMIC 1U K 10V
C1819	303 433 1112	CERAMIC 1U K 10V
C1821	303 409 3426	CERAMIC 0.1U K 16V
C1822	303 409 3426	CERAMIC 0.1U K 16V
C1823	303 409 3426	CERAMIC 0.1U K 16V
C1824	303 409 3426	CERAMIC 0.1U K 16V
C1826	303 409 3426	CERAMIC 0.1U K 16V
C1827	303 409 3426	CERAMIC 0.1U K 16V
C1828	303 409 3426	CERAMIC 0.1U K 16V
C1829	303 409 3426	CERAMIC 0.1U K 16V
C1831	303 409 3426	CERAMIC 0.1U K 16V
C1832	303 391 5115	ELECT 100U M 16V
	303 296 9515	ELECT 100U M 16V
C1834	303 409 3426	CERAMIC 0.1U K 16V
C1838	303 409 3426	CERAMIC 0.1U K 16V
C1861	303 433 1112	CERAMIC 1U K 10V
C1862	303 409 3426	CERAMIC 0.1U K 16V
C1863	303 433 1112	CERAMIC 1U K 10V
C1905	303 409 3426	CERAMIC 0.1U K 16V
C1906	303 409 3426	CERAMIC 0.1U K 16V
C1907	303 409 3426	CERAMIC 0.1U K 16V
C1908	303 409 3426	CERAMIC 0.1U K 16V
C1909	303 409 3426	CERAMIC 0.1U K 16V
C191	303 433 1112	CERAMIC 1U K 10V

Electrical Parts List

Key No.	Part No.	Description		
C1910	303 409 3426	CERAMIC	0.1U K	16V
C1911	303 409 3426	CERAMIC	0.1U K	16V
C1912	303 409 3426	CERAMIC	0.1U K	16V
C1913	303 409 3426	CERAMIC	0.1U K	16V
C1914	303 409 3426	CERAMIC	0.1U K	16V
C1917	303 409 3426	CERAMIC	0.1U K	16V
C1918	303 409 3426	CERAMIC	0.1U K	16V
C1919	303 409 3426	CERAMIC	0.1U K	16V
C192	303 433 1112	CERAMIC	1U K	10V
C1926	303 409 3426	CERAMIC	0.1U K	16V
C1927	303 409 3426	CERAMIC	0.1U K	16V
C1928	303 409 3426	CERAMIC	0.1U K	16V
C1929	303 409 3426	CERAMIC	0.1U K	16V
C193	303 358 3215	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C2504	303 409 3426	CERAMIC	0.1U K	16V
C2505	303 401 3810	ELECT	10U M	25V
	303 424 1510	ELECT	10.0U M	25V
C2506	303 367 0410	CERAMIC	0.1U K	50V
C2507	303 367 0410	CERAMIC	0.1U K	50V
C2508	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C2509	303 409 3426	CERAMIC	0.1U K	16V
C2511	303 409 3426	CERAMIC	0.1U K	16V
C2512	303 433 1112	CERAMIC	1U K	10V
C2513	303 367 0410	CERAMIC	0.1U K	50V
C2514	303 401 3810	ELECT	10U M	25V
	303 424 1510	ELECT	10.0U M	25V
C2534	303 409 3426	CERAMIC	0.1U K	16V
C2535	303 401 3810	ELECT	10U M	25V
	303 424 1510	ELECT	10.0U M	25V
C2536	303 367 0410	CERAMIC	0.1U K	50V
C2537	303 367 0410	CERAMIC	0.1U K	50V
C2538	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C2539	303 409 3426	CERAMIC	0.1U K	16V
C2541	303 409 3426	CERAMIC	0.1U K	16V
C2542	303 433 1112	CERAMIC	1U K	10V
C2543	303 367 0410	CERAMIC	0.1U K	50V
C2544	303 401 3810	ELECT	10U M	25V
	303 424 1510	ELECT	10.0U M	25V
C2564	303 409 3426	CERAMIC	0.1U K	16V
C2565	303 401 3810	ELECT	10U M	25V
	303 424 1510	ELECT	10.0U M	25V
C2566	303 367 0410	CERAMIC	0.1U K	50V
C2567	303 367 0410	CERAMIC	0.1U K	50V
C2568	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C2569	303 409 3426	CERAMIC	0.1U K	16V
C2571	303 409 3426	CERAMIC	0.1U K	16V
C2572	303 433 1112	CERAMIC	1U K	10V
C2573	303 367 0410	CERAMIC	0.1U K	50V
C2574	303 401 3810	ELECT	10U M	25V
	303 424 1510	ELECT	10.0U M	25V
C2801	303 409 3426	CERAMIC	0.1U K	16V
C2811	303 409 3426	CERAMIC	0.1U K	16V
C2851	303 409 3426	CERAMIC	0.1U K	16V
C2852	303 409 3426	CERAMIC	0.1U K	16V
C2853	303 409 3426	CERAMIC	0.1U K	16V
C2854	303 409 3426	CERAMIC	0.1U K	16V
C2856	303 409 3426	CERAMIC	0.1U K	16V
C2857	303 433 1112	CERAMIC	1U K	10V
C301	303 409 3426	CERAMIC	0.1U K	16V
C302	303 409 3426	CERAMIC	0.1U K	16V
C303	303 409 3426	CERAMIC	0.1U K	16V
C304	303 409 3426	CERAMIC	0.1U K	16V
C306	303 409 3426	CERAMIC	0.1U K	16V
C307	303 409 3426	CERAMIC	0.1U K	16V
C308	303 409 3426	CERAMIC	0.1U K	16V
C309	303 409 3426	CERAMIC	0.1U K	16V
C3101	303 398 4111	ELECT	47U M	16V
	303 387 6515	ELECT	47U M	16V
C3102	303 398 4111	ELECT	47U M	16V
	303 387 6515	ELECT	47U M	16V
C3103	303 398 4111	ELECT	47U M	16V
	303 387 6515	ELECT	47U M	16V
C3104	303 398 4111	ELECT	47U M	16V
	303 387 6515	ELECT	47U M	16V
C3106	303 398 4111	ELECT	47U M	16V
	303 387 6515	ELECT	47U M	16V
C3107	303 409 3426	CERAMIC	0.1U K	16V
C3108	303 394 1312	ELECT	100U M	6.3V
	303 387 4917	ELECT	100U M	6.3V
C3109	303 409 3426	CERAMIC	0.1U K	16V
C311	303 409 3426	CERAMIC	0.1U K	16V
C3111	303 394 1312	ELECT	100U M	6.3V
	303 387 4917	ELECT	100U M	6.3V
C3112	303 409 3426	CERAMIC	0.1U K	16V
C3113	303 409 3426	CERAMIC	0.1U K	16V
C3114	303 409 3426	CERAMIC	0.1U K	16V
C3115	303 409 3426	CERAMIC	0.1U K	16V
C3116	303 409 3426	CERAMIC	0.1U K	16V
C3117	303 409 3426	CERAMIC	0.1U K	16V
C3118	303 409 3426	CERAMIC	0.1U K	16V
C3119	303 409 3426	CERAMIC	0.1U K	16V
C312	303 409 3426	CERAMIC	0.1U K	16V
C3121	303 409 3426	CERAMIC	0.1U K	16V
C3122	303 409 3426	CERAMIC	0.1U K	16V
C3123	303 409 3426	CERAMIC	0.1U K	16V
C3124	303 409 3426	CERAMIC	0.1U K	16V
C3126	303 409 3426	CERAMIC	0.1U K	16V
C3127	303 409 3426	CERAMIC	0.1U K	16V
C3128	303 409 3426	CERAMIC	0.1U K	16V
C3129	303 409 3426	CERAMIC	0.1U K	16V
C313	303 409 3426	CERAMIC	0.1U K	16V
C3131	303 409 3426	CERAMIC	0.1U K	16V
C3132	303 409 3426	CERAMIC	0.1U K	16V
C3133	303 376 6311	CERAMIC	0.47U K	10V
C3134	303 376 6311	CERAMIC	0.47U K	10V
C3136	303 376 6311	CERAMIC	0.47U K	10V
C3137	303 376 6311	CERAMIC	0.47U K	10V
C3138	303 376 6311	CERAMIC	0.47U K	10V
C3139	303 376 6311	CERAMIC	0.47U K	10V
C314	303 409 3426	CERAMIC	0.1U K	16V
C3141	303 376 6311	CERAMIC	0.47U K	10V
C3142	303 376 6311	CERAMIC	0.47U K	10V
C3143	303 376 6311	CERAMIC	0.47U K	10V
C3144	303 376 6311	CERAMIC	0.47U K	10V
C3146	303 376 6311	CERAMIC	0.47U K	10V
C3147	303 376 6311	CERAMIC	0.47U K	10V
C3148	303 376 6311	CERAMIC	0.47U K	10V
C3149	303 376 6311	CERAMIC	0.47U K	10V
C3151	303 376 6311	CERAMIC	0.47U K	10V
C3152	303 376 6311	CERAMIC	0.47U K	10V
C3153	303 376 6311	CERAMIC	0.47U K	10V
C3154	303 376 6311	CERAMIC	0.47U K	10V
C3156	303 376 6311	CERAMIC	0.47U K	10V
C3157	303 376 6311	CERAMIC	0.47U K	10V
C3158	303 376 6311	CERAMIC	0.47U K	10V
C3159	303 376 6311	CERAMIC	0.47U K	10V
C316	303 409 3426	CERAMIC	0.1U K	16V
C3161	303 376 6311	CERAMIC	0.47U K	10V
C3162	303 376 6311	CERAMIC	0.47U K	10V
C3163	303 376 6311	CERAMIC	0.47U K	10V

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Key No.	Part No.	Description		
C3164	303 409 3426	CERAMIC	0.1U K	16V
C3166	303 409 3426	CERAMIC	0.1U K	16V
C3167	303 394 1312	ELECT	100U M	6.3V
	303 387 4917	ELECT	100U M	6.3V
C3168	303 394 1312	ELECT	100U M	6.3V
	303 387 4917	ELECT	100U M	6.3V
C3169	303 376 6311	CERAMIC	0.47U K	10V
C317	303 409 3426	CERAMIC	0.1U K	16V
C3171	303 376 6311	CERAMIC	0.47U K	10V
C3172	303 409 3426	CERAMIC	0.1U K	16V
C3173	303 409 3426	CERAMIC	0.1U K	16V
C3174	303 409 3426	CERAMIC	0.1U K	16V
C3176	303 376 6311	CERAMIC	0.47U K	10V
C3177	303 376 6311	CERAMIC	0.47U K	10V
C3178	303 376 6311	CERAMIC	0.47U K	10V
C3179	303 376 6311	CERAMIC	0.47U K	10V
C318	303 409 3426	CERAMIC	0.1U K	16V
C3181	303 376 6311	CERAMIC	0.47U K	10V
C3182	303 376 6311	CERAMIC	0.47U K	10V
C3183	303 376 6311	CERAMIC	0.47U K	10V
C3184	303 376 6311	CERAMIC	0.47U K	10V
C3186	303 394 1312	ELECT	100U M	6.3V
	303 387 4917	ELECT	100U M	6.3V
C3187	303 394 1312	ELECT	100U M	6.3V
	303 387 4917	ELECT	100U M	6.3V
C3188	303 409 3426	CERAMIC	0.1U K	16V
C3189	303 409 3426	CERAMIC	0.1U K	16V
C319	303 409 3426	CERAMIC	0.1U K	16V
C3191	303 394 1312	ELECT	100U M	6.3V
	303 387 4917	ELECT	100U M	6.3V
C3192	303 394 1312	ELECT	100U M	6.3V
	303 387 4917	ELECT	100U M	6.3V
C3201	303 409 3426	CERAMIC	0.1U K	16V
C3202	303 409 3426	CERAMIC	0.1U K	16V
C3203	303 409 3426	CERAMIC	0.1U K	16V
C3204	303 409 3426	CERAMIC	0.1U K	16V
C321	303 409 3426	CERAMIC	0.1U K	16V
C322	303 409 3426	CERAMIC	0.1U K	16V
C3221	303 409 3426	CERAMIC	0.1U K	16V
C3222	303 409 3426	CERAMIC	0.1U K	16V
C323	303 409 3426	CERAMIC	0.1U K	16V
C324	303 409 3426	CERAMIC	0.1U K	16V
C3241	303 409 3426	CERAMIC	0.1U K	16V
C326	303 409 3426	CERAMIC	0.1U K	16V
C3261	303 433 1112	CERAMIC	1U K	10V
C3262	303 409 3426	CERAMIC	0.1U K	16V
C3263	303 394 1312	ELECT	100U M	6.3V
	303 387 4917	ELECT	100U M	6.3V
C327	303 409 3426	CERAMIC	0.1U K	16V
C328	303 409 3426	CERAMIC	0.1U K	16V
C329	303 409 3426	CERAMIC	0.1U K	16V
C331	303 409 3426	CERAMIC	0.1U K	16V
C334	303 409 3426	CERAMIC	0.1U K	16V
C336	303 409 3426	CERAMIC	0.1U K	16V
C337	303 409 3426	CERAMIC	0.1U K	16V
C338	303 409 3426	CERAMIC	0.1U K	16V
C339	303 409 3426	CERAMIC	0.1U K	16V
C342	303 276 1911	CERAMIC	22P J	50V
C343	303 276 1911	CERAMIC	22P J	50V
C344	303 409 3426	CERAMIC	0.1U K	16V
C346	303 409 3426	CERAMIC	0.1U K	16V
C347	303 409 3426	CERAMIC	0.1U K	16V
C348	303 409 3426	CERAMIC	0.1U K	16V
C349	303 409 3426	CERAMIC	0.1U K	16V
C3501	303 409 3426	CERAMIC	0.1U K	16V
C3502	303 367 0410	CERAMIC	0.1U K	50V
C3503	303 367 0410	CERAMIC	0.1U K	50V
C3504	303 409 3426	CERAMIC	0.1U K	16V
C3506	303 391 5115	ELECT	100U M	16V
	303 296 9515	ELECT	100U M	16V
C3508	303 401 3810	ELECT	10U M	25V
	303 424 1510	ELECT	10.0U M	25V
C3509	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C351	303 409 3426	CERAMIC	0.1U K	16V
C3513	303 276 3113	CERAMIC	33P J	50V
C352	303 409 3426	CERAMIC	0.1U K	16V
C3527	303 276 3113	CERAMIC	33P J	50V
C353	303 409 3426	CERAMIC	0.1U K	16V
C3531	303 409 3426	CERAMIC	0.1U K	16V
C3532	303 367 0410	CERAMIC	0.1U K	50V
C3533	303 367 0410	CERAMIC	0.1U K	50V
C3534	303 409 3426	CERAMIC	0.1U K	16V
C3536	303 391 5115	ELECT	100U M	16V
	303 296 9515	ELECT	100U M	16V
C3538	303 401 3810	ELECT	10U M	25V
	303 424 1510	ELECT	10.0U M	25V
C3539	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C354	303 409 3426	CERAMIC	0.1U K	16V
C3543	303 276 3113	CERAMIC	33P J	50V
C3557	303 276 3113	CERAMIC	33P J	50V
C356	303 409 3426	CERAMIC	0.1U K	16V
C3561	303 409 3426	CERAMIC	0.1U K	16V
C3562	303 367 0410	CERAMIC	0.1U K	50V
C3563	303 367 0410	CERAMIC	0.1U K	50V
C3564	303 409 3426	CERAMIC	0.1U K	16V
C3566	303 391 5115	ELECT	100U M	16V
	303 296 9515	ELECT	100U M	16V
C3568	303 401 3810	ELECT	10U M	25V
	303 424 1510	ELECT	10.0U M	25V
C3569	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C357	303 409 3426	CERAMIC	0.1U K	16V
C3573	303 276 3113	CERAMIC	33P J	50V
C358	303 409 3426	CERAMIC	0.1U K	16V
C3587	303 276 3113	CERAMIC	33P J	50V
C360	303 409 3426	CERAMIC	0.1U K	16V
C361	303 409 3426	CERAMIC	0.1U K	16V
C362	303 409 3426	CERAMIC	0.1U K	16V
C363	303 409 3426	CERAMIC	0.1U K	16V
C365	303 409 3426	CERAMIC	0.1U K	16V
C366	303 409 3426	CERAMIC	0.1U K	16V
C367	303 409 3426	CERAMIC	0.1U K	16V
C368	303 409 3426	CERAMIC	0.1U K	16V
C371	303 409 3426	CERAMIC	0.1U K	16V
C372	303 409 3426	CERAMIC	0.1U K	16V
C373	303 409 3426	CERAMIC	0.1U K	16V
C374	303 409 3426	CERAMIC	0.1U K	16V
C375	303 409 3426	CERAMIC	0.1U K	16V
C376	303 409 3426	CERAMIC	0.1U K	16V
C377	303 409 3426	CERAMIC	0.1U K	16V
C378	303 409 3426	CERAMIC	0.1U K	16V
C379	303 409 3426	CERAMIC	0.1U K	16V
C3801	303 396 9514	CERAMIC	2.2U K	10V
	303 382 7814	CERAMIC	2.2U K	10V
C3802	303 396 9514	CERAMIC	2.2U K	10V
	303 382 7814	CERAMIC	2.2U K	10V
C3803	303 396 9514	CERAMIC	2.2U K	10V
	303 382 7814	CERAMIC	2.2U K	10V
C3804	303 396 9514	CERAMIC	2.2U K	10V
	303 382 7814	CERAMIC	2.2U K	10V
C3806	303 433 1112	CERAMIC	1U K	10V
C381	303 442 0519	CERAMIC	0.068U K	16V

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Key No.	Part No.	Description		
C382	303 442 0519	CERAMIC	0.068U K	16V
C383	303 409 3426	CERAMIC	0.1U K	16V
C384	303 442 0519	CERAMIC	0.068U K	16V
C386	303 441 9810	CERAMIC	0.01U K	50V
C388	303 409 3426	CERAMIC	0.1U K	16V
C389	303 409 3426	CERAMIC	0.1U K	16V
C391	303 409 3426	CERAMIC	0.1U K	16V
C394	303 381 5316	ELECT	100U M	16V
	303 369 3211	ELECT	100U M	16V
C396	303 381 5316	ELECT	100U M	16V
	303 369 3211	ELECT	100U M	16V
C401	303 433 1112	CERAMIC	1U K	10V
C405	303 394 1312	ELECT	100U M	6.3V
	303 387 4917	ELECT	100U M	6.3V
C406	303 433 1112	CERAMIC	1U K	10V
C407	303 409 3426	CERAMIC	0.1U K	16V
C408	303 409 3426	CERAMIC	0.1U K	16V
C409	303 409 3426	CERAMIC	0.1U K	16V
C410	303 409 3426	CERAMIC	0.1U K	16V
C4101	303 394 1312	ELECT	100U M	6.3V
	303 387 4917	ELECT	100U M	6.3V
C4102	303 409 3426	CERAMIC	0.1U K	16V
C4103	303 409 3426	CERAMIC	0.1U K	16V
C4104	303 409 3426	CERAMIC	0.1U K	16V
C4106	303 409 3426	CERAMIC	0.1U K	16V
C4107	303 409 3426	CERAMIC	0.1U K	16V
C4108	303 409 3426	CERAMIC	0.1U K	16V
C4109	303 409 3426	CERAMIC	0.1U K	16V
C411	303 409 3426	CERAMIC	0.1U K	16V
C4111	303 409 3426	CERAMIC	0.1U K	16V
C412	303 409 3426	CERAMIC	0.1U K	16V
C413	303 441 9810	CERAMIC	0.01U K	50V
C4131	303 433 1112	CERAMIC	1U K	10V
C4132	303 358 3215	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C4133	303 433 1112	CERAMIC	1U K	10V
C414	303 409 3426	CERAMIC	0.1U K	16V
C4141	303 433 1112	CERAMIC	1U K	10V
C4142	303 409 3426	CERAMIC	0.1U K	16V
C4143	303 433 1112	CERAMIC	1U K	10V
C415	303 409 3426	CERAMIC	0.1U K	16V
C4151	303 433 1112	CERAMIC	1U K	10V
C4152	303 358 3215	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C4153	303 433 1112	CERAMIC	1U K	10V
C4161	303 433 1112	CERAMIC	1U K	10V
C4162	303 409 3426	CERAMIC	0.1U K	16V
C4163	303 433 1112	CERAMIC	1U K	10V
C417	303 409 3426	CERAMIC	0.1U K	16V
C418	303 409 3426	CERAMIC	0.1U K	16V
C419	303 409 3426	CERAMIC	0.1U K	16V
C420	303 394 1312	ELECT	100U M	6.3V
	303 387 4917	ELECT	100U M	6.3V
C421	303 409 3426	CERAMIC	0.1U K	16V
C422	303 409 3426	CERAMIC	0.1U K	16V
C423	303 409 3426	CERAMIC	0.1U K	16V
C424	303 409 3426	CERAMIC	0.1U K	16V
C425	303 409 3426	CERAMIC	0.1U K	16V
C426	303 409 3426	CERAMIC	0.1U K	16V
C427	303 409 3426	CERAMIC	0.1U K	16V
C428	303 409 3426	CERAMIC	0.1U K	16V
C429	303 409 3426	CERAMIC	0.1U K	16V
C431	303 409 3426	CERAMIC	0.1U K	16V
C432	303 409 3426	CERAMIC	0.1U K	16V
C433	303 409 3426	CERAMIC	0.1U K	16V
C434	303 409 3426	CERAMIC	0.1U K	16V
C435	303 409 3426	CERAMIC	0.1U K	16V
C436	303 409 3426	CERAMIC	0.1U K	16V
C437	303 409 3426	CERAMIC	0.1U K	16V
C438	303 409 3426	CERAMIC	0.1U K	16V
C439	303 409 3426	CERAMIC	0.1U K	16V
C440	303 409 3426	CERAMIC	0.1U K	16V
C441	303 394 1312	ELECT	100U M	6.3V
	303 387 4917	ELECT	100U M	6.3V
C442	303 409 3426	CERAMIC	0.1U K	16V
C443	303 409 3426	CERAMIC	0.1U K	16V
C444	303 409 3426	CERAMIC	0.1U K	16V
C445	303 409 3426	CERAMIC	0.1U K	16V
C446	303 409 3426	CERAMIC	0.1U K	16V
C447	303 409 3426	CERAMIC	0.1U K	16V
C448	303 409 3426	CERAMIC	0.1U K	16V
C449	303 409 3426	CERAMIC	0.1U K	16V
C450	303 409 3426	CERAMIC	0.1U K	16V
C451	303 409 3426	CERAMIC	0.1U K	16V
C452	303 409 3426	CERAMIC	0.1U K	16V
C453	303 409 3426	CERAMIC	0.1U K	16V
C454	303 409 3426	CERAMIC	0.1U K	16V
C455	303 409 3426	CERAMIC	0.1U K	16V
C456	303 409 3426	CERAMIC	0.1U K	16V
C457	303 409 3426	CERAMIC	0.1U K	16V
C458	303 409 3426	CERAMIC	0.1U K	16V
C459	303 409 3426	CERAMIC	0.1U K	16V
C460	303 409 3426	CERAMIC	0.1U K	16V
C4600	303 409 3426	CERAMIC	0.1U K	16V
C4601	303 407 1018	CERAMIC	4.7U K	6.3V
	303 383 5215	CERAMIC	4.7U K	6.3V
C4602	303 394 1312	ELECT	100U M	6.3V
	303 387 4917	ELECT	100U M	6.3V
C4603	303 394 1312	ELECT	100U M	6.3V
	303 387 4917	ELECT	100U M	6.3V
C4604	303 381 5316	ELECT	100U M	16V
	303 369 3211	ELECT	100U M	16V
C4606	303 401 4312	ELECT	47U M	25V
	303 419 5219	ELECT	47.0UM	25V
C4607	303 374 8416	OS-SOLID	39U M	16V
C4608	303 374 8416	OS-SOLID	39U M	16V
C4609	303 381 5316	ELECT	100U M	16V
	303 369 3211	ELECT	100U M	16V
C461	303 409 3426	CERAMIC	0.1U K	16V
C4611	303 374 8416	OS-SOLID	39U M	16V
C4612	303 407 1018	CERAMIC	4.7U K	6.3V
	303 383 5215	CERAMIC	4.7U K	6.3V
C4613	303 407 1018	CERAMIC	4.7U K	6.3V
	303 383 5215	CERAMIC	4.7U K	6.3V
C4614	303 401 4312	ELECT	47U M	25V
	303 419 5219	ELECT	47.0UM	25V
C4616	303 401 4312	ELECT	47U M	25V
	303 419 5219	ELECT	47.0UM	25V
C4617	303 401 4312	ELECT	47U M	25V
	303 419 5219	ELECT	47.0UM	25V
C462	303 409 3426	CERAMIC	0.1U K	16V
C4621	303 441 9810	CERAMIC	0.01U K	50V
C463	303 409 3426	CERAMIC	0.1U K	16V
C4637	303 407 1018	CERAMIC	4.7U K	6.3V
	303 383 5215	CERAMIC	4.7U K	6.3V
C4638	403 456 4210	CERAMIC	470P J	50V
C464	303 409 3426	CERAMIC	0.1U K	16V
C4641	303 441 9810	CERAMIC	0.01U K	50V
C4642	303 441 9810	CERAMIC	0.01U K	50V
C4643	303 441 9810	CERAMIC	0.01U K	50V
C4644	303 441 9810	CERAMIC	0.01U K	50V
C4646	303 441 9810	CERAMIC	0.01U K	50V
C465	303 409 3426	CERAMIC	0.1U K	16V
C471	303 409 3426	CERAMIC	0.1U K	16V

Electrical Parts List

Key No.	Part No.	Description		
C4801	303 409 3426	CERAMIC	0.1U K	16V
C4802	303 358 3215	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C4804	303 283 5711	CERAMIC	2200P K	50V
C4806	303 409 3426	CERAMIC	0.1U K	16V
C4891	303 433 1112	CERAMIC	1U K	10V
C4892	303 409 3426	CERAMIC	0.1U K	16V
C4893	303 433 1112	CERAMIC	1U K	10V
C501	303 433 1112	CERAMIC	1U K	10V
C502	303 367 0410	CERAMIC	0.1U K	50V
C503	303 367 0410	CERAMIC	0.1U K	50V
C504	303 367 0410	CERAMIC	0.1U K	50V
C505	303 367 0410	CERAMIC	0.1U K	50V
C506	303 367 0410	CERAMIC	0.1U K	50V
C507	303 367 0410	CERAMIC	0.1U K	50V
C508	303 367 0410	CERAMIC	0.1U K	50V
C509	303 367 0410	CERAMIC	0.1U K	50V
C5101	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C5102	303 409 3426	CERAMIC	0.1U K	16V
C5103	303 398 4111	ELECT	47U M	16V
	303 387 6515	ELECT	47U M	16V
C511	303 367 0410	CERAMIC	0.1U K	50V
C5111	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C5112	303 409 3426	CERAMIC	0.1U K	16V
C5113	303 433 1112	CERAMIC	1U K	10V
C512	303 276 1317	CERAMIC	1000P K	50V
C5121	303 396 9514	CERAMIC	2.2U K	10V
	303 382 7814	CERAMIC	2.2U K	10V
C5122	303 391 5115	ELECT	100U M	16V
	303 296 9515	ELECT	100U M	16V
C5123	303 376 6311	CERAMIC	0.47U K	10V
C5124	303 441 9810	CERAMIC	0.01U K	50V
C5126	303 433 1112	CERAMIC	1U K	10V
C5128	303 433 1112	CERAMIC	1U K	10V
C5129	303 391 5115	ELECT	100U M	16V
	303 296 9515	ELECT	100U M	16V
C513	303 367 0410	CERAMIC	0.1U K	50V
C514	303 367 0410	CERAMIC	0.1U K	50V
C5141	303 441 9810	CERAMIC	0.01U K	50V
C515	303 409 3426	CERAMIC	0.1U K	16V
C5151	303 441 9810	CERAMIC	0.01U K	50V
C516	303 409 3426	CERAMIC	0.1U K	16V
C517	303 409 3426	CERAMIC	0.1U K	16V
C518	303 409 3426	CERAMIC	0.1U K	16V
C519	303 409 3426	CERAMIC	0.1U K	16V
C5201	303 381 9918	ELECT	470U M	16V
	303 407 3517	ELECT	470U M	16V
C5203	303 381 9918	ELECT	470U M	16V
	303 407 3517	ELECT	470U M	16V
C5206	303 381 9918	ELECT	470U M	16V
	303 407 3517	ELECT	470U M	16V
C5211	303 409 3426	CERAMIC	0.1U K	16V
C5213	303 409 3426	CERAMIC	0.1U K	16V
C5216	303 409 3426	CERAMIC	0.1U K	16V
C5221	303 394 1312	ELECT	100U M	6.3V
	303 387 4917	ELECT	100U M	6.3V
C5222	303 433 1112	CERAMIC	1U K	10V
C5223	303 433 1112	CERAMIC	1U K	10V
C5224	303 276 1317	CERAMIC	1000P K	50V
C5226	303 409 3426	CERAMIC	0.1U K	16V
C5227	303 394 1312	ELECT	100U M	6.3V
	303 387 4917	ELECT	100U M	6.3V
C5228	303 409 3426	CERAMIC	0.1U K	16V
C5229	303 409 3426	CERAMIC	0.1U K	16V
C526	303 401 3810	ELECT	10U M	25V
	303 424 1510	ELECT	10.0U M	25V
C5261	303 433 1112	CERAMIC	1U K	10V
C5262	303 433 1112	CERAMIC	1U K	10V
C5263	303 433 1112	CERAMIC	1U K	10V
C527	303 433 1112	CERAMIC	1U K	10V
C5271	303 433 1112	CERAMIC	1U K	10V
C5272	303 433 1112	CERAMIC	1U K	10V
C5273	303 433 1112	CERAMIC	1U K	10V
C528	303 401 3810	ELECT	10U M	25V
	303 424 1510	ELECT	10.0U M	25V
C5281	303 409 3426	CERAMIC	0.1U K	16V
C5282	303 409 3426	CERAMIC	0.1U K	16V
C529	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C5301	303 396 9514	CERAMIC	2.2U K	10V
	303 382 7814	CERAMIC	2.2U K	10V
C5303	303 409 3426	CERAMIC	0.1U K	16V
C5304	303 409 3426	CERAMIC	0.1U K	16V
C5307	303 314 5314	CERAMIC	5P C	50V
C5308	303 284 4317	CERAMIC	0.022U K	50V
C5309	303 409 3426	CERAMIC	0.1U K	16V
C531	303 433 1112	CERAMIC	1U K	10V
C5311	303 433 1112	CERAMIC	1U K	10V
C5313	303 409 3426	CERAMIC	0.1U K	16V
C532	303 367 0410	CERAMIC	0.1U K	50V
C5321	303 396 9514	CERAMIC	2.2U K	10V
	303 382 7814	CERAMIC	2.2U K	10V
C5322	303 376 6311	CERAMIC	0.47U K	10V
C5323	303 376 6311	CERAMIC	0.47U K	10V
C5324	303 394 1312	ELECT	100U M	6.3V
	303 387 4917	ELECT	100U M	6.3V
C5326	303 409 3426	CERAMIC	0.1U K	16V
C5327	303 433 1112	CERAMIC	1U K	10V
C5328	303 396 9514	CERAMIC	2.2U K	10V
	303 382 7814	CERAMIC	2.2U K	10V
C5329	303 433 1112	CERAMIC	1U K	10V
C533	303 367 0410	CERAMIC	0.1U K	50V
C5331	303 294 6110	CERAMIC	100P J	50V
C5332	303 409 3426	CERAMIC	0.1U K	16V
C534	303 367 0410	CERAMIC	0.1U K	50V
C5341	303 409 3426	CERAMIC	0.1U K	16V
C5342	303 394 1312	ELECT	100U M	6.3V
	303 387 4917	ELECT	100U M	6.3V
C535	303 367 0410	CERAMIC	0.1U K	50V
C5351	303 409 3426	CERAMIC	0.1U K	16V
C536	303 367 0410	CERAMIC	0.1U K	50V
C5361	303 409 3426	CERAMIC	0.1U K	16V
C537	303 367 0410	CERAMIC	0.1U K	50V
C538	303 367 0410	CERAMIC	0.1U K	50V
C539	303 367 0410	CERAMIC	0.1U K	50V
C541	303 367 0410	CERAMIC	0.1U K	50V
C542	303 276 1317	CERAMIC	1000P K	50V
C543	303 367 0410	CERAMIC	0.1U K	50V
C544	303 367 0410	CERAMIC	0.1U K	50V
C545	303 409 3426	CERAMIC	0.1U K	16V
C546	303 409 3426	CERAMIC	0.1U K	16V
C547	303 409 3426	CERAMIC	0.1U K	16V
C548	303 409 3426	CERAMIC	0.1U K	16V
C549	303 409 3426	CERAMIC	0.1U K	16V
C5501	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C5502	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C5503	303 409 3426	CERAMIC	0.1U K	16V
C5504	303 409 3426	CERAMIC	0.1U K	16V
C5506	303 409 3426	CERAMIC	0.1U K	16V
C5551	303 396 9613	CERAMIC	1U K	25V

Electrical Parts List

Key No.	Part No.	Description		
	303 397 7618	CERAMIC	1U K	25V
C5552	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C556	303 401 3810	ELECT	10U M	25V
	303 424 1510	ELECT	10.0U M	25V
C5563	303 409 3426	CERAMIC	0.1U K	16V
C5564	303 409 3426	CERAMIC	0.1U K	16V
C5566	303 409 3426	CERAMIC	0.1U K	16V
C557	303 433 1112	CERAMIC	1U K	10V
C558	303 401 3810	ELECT	10U M	25V
	303 424 1510	ELECT	10.0U M	25V
C559	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C5601	303 433 1112	CERAMIC	1U K	10V
C5602	303 409 3426	CERAMIC	0.1U K	16V
C5603	303 358 3215	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C561	303 433 1112	CERAMIC	1U K	10V
C562	303 367 0410	CERAMIC	0.1U K	50V
C5621	303 433 1112	CERAMIC	1U K	10V
C5622	303 442 0519	CERAMIC	0.068U K	16V
C5623	303 433 1112	CERAMIC	1U K	10V
C563	303 367 0410	CERAMIC	0.1U K	50V
C564	303 367 0410	CERAMIC	0.1U K	50V
C5641	303 396 9514	CERAMIC	2.2U K	10V
	303 382 7814	CERAMIC	2.2U K	10V
C5642	303 409 3426	CERAMIC	0.1U K	16V
C5643	303 409 3426	CERAMIC	0.1U K	16V
C5644	303 379 7315	CERAMIC	4700P K	50V
C565	303 367 0410	CERAMIC	0.1U K	50V
C566	303 367 0410	CERAMIC	0.1U K	50V
C5661	303 433 1112	CERAMIC	1U K	10V
C5662	303 347 5510	POS-SOLID	470U M	4V
C5664	303 409 3426	CERAMIC	0.1U K	16V
C5666	303 306 6510	CERAMIC	8200P K	50V
C5667	303 381 5316	ELECT	100U M	16V
	303 369 3211	ELECT	100U M	16V
C5668	303 381 5316	ELECT	100U M	16V
	303 369 3211	ELECT	100U M	16V
C567	303 367 0410	CERAMIC	0.1U K	50V
C568	303 367 0410	CERAMIC	0.1U K	50V
C569	303 367 0410	CERAMIC	0.1U K	50V
C5691	303 433 1112	CERAMIC	1U K	10V
C5692	303 409 3426	CERAMIC	0.1U K	16V
C5693	303 433 1112	CERAMIC	1U K	10V
C571	303 367 0410	CERAMIC	0.1U K	50V
C572	303 276 1317	CERAMIC	1000P K	50V
C573	303 367 0410	CERAMIC	0.1U K	50V
C574	303 367 0410	CERAMIC	0.1U K	50V
C575	303 409 3426	CERAMIC	0.1U K	16V
C576	303 409 3426	CERAMIC	0.1U K	16V
C577	303 409 3426	CERAMIC	0.1U K	16V
C578	303 409 3426	CERAMIC	0.1U K	16V
C579	303 409 3426	CERAMIC	0.1U K	16V
C586	303 401 3810	ELECT	10U M	25V
	303 424 1510	ELECT	10.0U M	25V
C587	303 433 1112	CERAMIC	1U K	10V
C588	303 401 3810	ELECT	10U M	25V
	303 424 1510	ELECT	10.0U M	25V
C589	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C6501	303 409 3426	CERAMIC	0.1U K	16V
C6531	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C6532	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C6533	303 409 3426	CERAMIC	0.1U K	16V
C6534	303 409 3426	CERAMIC	0.1U K	16V
C6536	303 409 3426	CERAMIC	0.1U K	16V
C6541	303 409 3426	CERAMIC	0.1U K	16V
C6561	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C6562	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C6563	303 409 3426	CERAMIC	0.1U K	16V
C6564	303 409 3426	CERAMIC	0.1U K	16V
C6566	303 409 3426	CERAMIC	0.1U K	16V
C6801	303 409 3426	CERAMIC	0.1U K	16V
C6802	303 409 3426	CERAMIC	0.1U K	16V
C6803	303 409 3426	CERAMIC	0.1U K	16V
C7201	303 394 1312	ELECT	100U M	6.3V
	303 387 4917	ELECT	100U M	6.3V
C7202	303 409 3426	CERAMIC	0.1U K	16V
C7203	303 409 3426	CERAMIC	0.1U K	16V
C7204	303 409 3426	CERAMIC	0.1U K	16V
C7206	303 409 3426	CERAMIC	0.1U K	16V
C7207	303 409 3426	CERAMIC	0.1U K	16V
C7208	303 409 3426	CERAMIC	0.1U K	16V
C7209	303 409 3426	CERAMIC	0.1U K	16V
C7211	303 409 3426	CERAMIC	0.1U K	16V
C7212	303 409 3426	CERAMIC	0.1U K	16V
C7213	303 409 3426	CERAMIC	0.1U K	16V
C7214	303 409 3426	CERAMIC	0.1U K	16V
C7216	303 409 3426	CERAMIC	0.1U K	16V
C7217	303 409 3426	CERAMIC	0.1U K	16V
C7218	303 409 3426	CERAMIC	0.1U K	16V
C7219	303 409 3426	CERAMIC	0.1U K	16V
C7221	303 409 3426	CERAMIC	0.1U K	16V
C7222	303 409 3426	CERAMIC	0.1U K	16V
C7223	303 409 3426	CERAMIC	0.1U K	16V
C7224	303 409 3426	CERAMIC	0.1U K	16V
C7226	303 409 3426	CERAMIC	0.1U K	16V
C7229	303 409 3426	CERAMIC	0.1U K	16V
C7233	303 394 1312	ELECT	100U M	6.3V
	303 387 4917	ELECT	100U M	6.3V
C7234	303 394 1312	ELECT	100U M	6.3V
	303 387 4917	ELECT	100U M	6.3V
C7262	303 409 3426	CERAMIC	0.1U K	16V
C7281	303 433 1112	CERAMIC	1U K	10V
C7282	303 409 3426	CERAMIC	0.1U K	16V
C7283	303 358 3215	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C7291	303 433 1112	CERAMIC	1U K	10V
C7292	303 409 3426	CERAMIC	0.1U K	16V
C7293	303 358 3215	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C7801	303 409 3426	CERAMIC	0.1U K	16V
C7802	303 409 3426	CERAMIC	0.1U K	16V
C7803	303 409 3426	CERAMIC	0.1U K	16V
C7804	303 409 3426	CERAMIC	0.1U K	16V
C7809	303 407 1018	CERAMIC	4.7U K	6.3V
	303 383 5215	CERAMIC	4.7U K	6.3V
C7811	303 407 1018	CERAMIC	4.7U K	6.3V
	303 383 5215	CERAMIC	4.7U K	6.3V
C7812	303 409 3426	CERAMIC	0.1U K	16V
C7813	303 409 3426	CERAMIC	0.1U K	16V
C7814	303 409 3426	CERAMIC	0.1U K	16V
C7816	303 409 3426	CERAMIC	0.1U K	16V
C7817	303 409 3426	CERAMIC	0.1U K	16V
C7821	303 409 3426	CERAMIC	0.1U K	16V
C8001	303 358 3215	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C8002	303 409 3426	CERAMIC	0.1U K	16V
C8003	303 358 3215	CERAMIC	10U K	6.3V

Electrical Parts List

Key No.	Part No.	Description		
	303 368 7319	CERAMIC	10U K	6.3V
C8004	303 394 1312	ELECT	100U M	6.3V
	303 387 4917	ELECT	100U M	6.3V
C8006	303 358 3215	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C8007	303 409 3426	CERAMIC	0.1U K	16V
C8008	303 276 1317	CERAMIC	1000P K	50V
C8009	303 358 3215	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C801	303 409 3426	CERAMIC	0.1U K	16V
C8011	303 276 1317	CERAMIC	1000P K	50V
C8012	303 276 1317	CERAMIC	1000P K	50V
C8013	303 276 1317	CERAMIC	1000P K	50V
C8014	303 276 1317	CERAMIC	1000P K	50V
C8016	303 433 1112	CERAMIC	1U K	10V
C8017	303 358 3215	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C8021	303 276 1317	CERAMIC	1000P K	50V
C8022	303 409 3426	CERAMIC	0.1U K	16V
C8023	303 276 1317	CERAMIC	1000P K	50V
C8024	303 409 3426	CERAMIC	0.1U K	16V
C8026	303 409 3426	CERAMIC	0.1U K	16V
C8027	303 276 1317	CERAMIC	1000P K	50V
C8028	303 409 3426	CERAMIC	0.1U K	16V
C8029	303 276 1317	CERAMIC	1000P K	50V
C8031	303 409 3426	CERAMIC	0.1U K	16V
C8032	303 276 1317	CERAMIC	1000P K	50V
C8033	303 409 3426	CERAMIC	0.1U K	16V
C8034	303 276 1317	CERAMIC	1000P K	50V
C8036	303 276 1317	CERAMIC	1000P K	50V
C8037	303 409 3426	CERAMIC	0.1U K	16V
C8038	303 409 3426	CERAMIC	0.1U K	16V
C8039	303 276 1317	CERAMIC	1000P K	50V
C8101	303 409 3426	CERAMIC	0.1U K	16V
C8121	303 409 3426	CERAMIC	0.1U K	16V
C8131	303 409 3426	CERAMIC	0.1U K	16V
C8141	303 409 3426	CERAMIC	0.1U K	16V
C8161	303 358 3215	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C8162	303 394 1312	ELECT	100U M	6.3V
	303 387 4917	ELECT	100U M	6.3V
C861	303 409 3426	CERAMIC	0.1U K	16V
C862	303 433 1112	CERAMIC	1U K	10V
C8801	303 433 1112	CERAMIC	1U K	10V
C8802	303 409 3426	CERAMIC	0.1U K	16V
C8803	303 433 1112	CERAMIC	1U K	10V
C8821	303 276 1317	CERAMIC	1000P K	50V
C8831	303 276 1317	CERAMIC	1000P K	50V
C8841	303 409 3426	CERAMIC	0.1U K	16V
RESISTOR				
R1001	301 225 8110	MT-GLAZE	10 JA	1/16W
R1002	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1003	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1004	301 238 4512	MT-GLAZE	47 JA	1/3W
R1006	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1007	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1008	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1009	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R101	301 263 7420	MT-GLAZE	75 JA	1/16W
R1011	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1012	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1013	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1014	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1017	301 224 9316	MT-GLAZE	1K JA	1/16W
R1018	301 225 1418	MT-GLAZE	47K JA	1/16W
R1019	301 224 9514	MT-GLAZE	2.2K JA	1/16W

Key No.	Part No.	Description		
R102	401 344 1914	MT-GLAZE	10K DA	1/16W
R1033	301 260 4115	MT-GLAZE	75 JA	1/3W
R1034	301 260 4115	MT-GLAZE	75 JA	1/3W
R1036	301 260 4115	MT-GLAZE	75 JA	1/3W
R1051	301 260 4115	MT-GLAZE	75 JA	1/3W
R1052	301 260 4115	MT-GLAZE	75 JA	1/3W
R1053	301 260 4115	MT-GLAZE	75 JA	1/3W
R1056	301 225 0817	MT-GLAZE	68K JA	1/16W
R1057	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R1058	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R1059	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R106	301 224 9514	MT-GLAZE	2.2K JA	1/16W
R1061	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1062	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1063	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1064	301 224 9019	MT-GLAZE	10K JA	1/16W
R1066	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1067	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1068	301 224 9019	MT-GLAZE	10K JA	1/16W
R107	301 224 9514	MT-GLAZE	2.2K JA	1/16W
R1081	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R1082	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R111	301 224 8814	MT-GLAZE	100 JA	1/16W
R112	301 224 8814	MT-GLAZE	100 JA	1/16W
R1301	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1306	301 224 9316	MT-GLAZE	1K JA	1/16W
R1307	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R131	301 225 8110	MT-GLAZE	10 JA	1/16W
R132	301 225 8110	MT-GLAZE	10 JA	1/16W
R133	301 225 8110	MT-GLAZE	10 JA	1/16W
R134	301 224 9316	MT-GLAZE	1K JA	1/16W
R1351	301 224 9019	MT-GLAZE	10K JA	1/16W
R1352	301 224 9019	MT-GLAZE	10K JA	1/16W
R1353	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R1354	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R1376	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R1378	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R1391	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1392	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1393	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R1394	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R1401	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R1402	301 224 8814	MT-GLAZE	100 JA	1/16W
R1403	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R1404	301 301 3718	MT-GLAZE	2K FA	1/16W
R1406	301 294 3115	MT-GLAZE	1K FA	1/16W
R1407	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1411	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R1412	301 224 8814	MT-GLAZE	100 JA	1/16W
R1413	301 225 8110	MT-GLAZE	10 JA	1/16W
R1414	301 294 3115	MT-GLAZE	1K FA	1/16W
R1416	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R151	301 256 0312	MT-GLAZE	820 JA	1/10W
R152	301 275 1819	MT-GLAZE	1.1K JA	1/16W
R153	301 235 1415	MT-GLAZE	1.2K JA	1/16W
R154	301 256 0312	MT-GLAZE	820 JA	1/10W
R156	301 225 1517	MT-GLAZE	3.9K JA	1/16W
R157	301 235 1415	MT-GLAZE	1.2K JA	1/16W
R158	301 338 6713	MT-GLAZE	1.6K FA	1/16W
R159	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R161	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R162	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R171	301 225 7915	MT-GLAZE	220 JA	1/16W
R172	301 224 9316	MT-GLAZE	1K JA	1/16W
R173	301 224 9316	MT-GLAZE	1K JA	1/16W
R174	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R176	301 225 7915	MT-GLAZE	220 JA	1/16W

Electrical Parts List

Key No.	Part No.	Description		
R177	301 224 9316	MT-GLAZE	1K JA	1/16W
R178	301 224 9316	MT-GLAZE	1K JA	1/16W
R179	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1801	301 224 9415	MT-GLAZE	1M JA	1/16W
R1802	301 237 2915	MT-GLAZE	51 JA	1/16W
R1803	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1804	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1806	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1807	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1808	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1809	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R181	301 225 7915	MT-GLAZE	220 JA	1/16W
R1811	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1812	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1813	301 224 9019	MT-GLAZE	10K JA	1/16W
R1814	301 224 9217	MT-GLAZE	15K JA	1/16W
R1816	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R1817	301 224 9019	MT-GLAZE	10K JA	1/16W
R1818	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R1819	301 224 9019	MT-GLAZE	10K JA	1/16W
R182	301 224 9316	MT-GLAZE	1K JA	1/16W
R1821	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R1822	301 225 8110	MT-GLAZE	10 JA	1/16W
R1823	301 225 8110	MT-GLAZE	10 JA	1/16W
R1824	301 225 8110	MT-GLAZE	10 JA	1/16W
R1826	301 225 8110	MT-GLAZE	10 JA	1/16W
R1827	301 225 8110	MT-GLAZE	10 JA	1/16W
R1828	301 225 8110	MT-GLAZE	10 JA	1/16W
R1829	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R183	301 224 9316	MT-GLAZE	1K JA	1/16W
R1831	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1832	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1833	301 224 9019	MT-GLAZE	10K JA	1/16W
R1834	301 224 9217	MT-GLAZE	15K JA	1/16W
R1836	301 224 9019	MT-GLAZE	10K JA	1/16W
R1837	301 224 9217	MT-GLAZE	15K JA	1/16W
R1838	301 224 9019	MT-GLAZE	10K JA	1/16W
R1839	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R184	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1841	301 224 9019	MT-GLAZE	10K JA	1/16W
R1842	301 224 9019	MT-GLAZE	10K JA	1/16W
R1843	301 225 3818	MT-GLAZE	1.5K JA	1/16W
R1844	301 224 9019	MT-GLAZE	10K JA	1/16W
R1845	301 225 8110	MT-GLAZE	10 JA	1/16W
R1846	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1847	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1848	301 224 9019	MT-GLAZE	10K JA	1/16W
R1849	301 224 9019	MT-GLAZE	10K JA	1/16W
R1851	301 224 9019	MT-GLAZE	10K JA	1/16W
R1852	301 224 9019	MT-GLAZE	10K JA	1/16W
R1853	301 224 9019	MT-GLAZE	10K JA	1/16W
R1854	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1856	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1857	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1858	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1859	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1861	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R1862	301 224 9019	MT-GLAZE	10K JA	1/16W
R1863	401 344 1914	MT-GLAZE	10K DA	1/16W
R1864	401 344 1914	MT-GLAZE	10K DA	1/16W
R1866	301 312 6913	MT-GLAZE	160 JA	1/16W
R1881	301 224 9019	MT-GLAZE	10K JA	1/16W
R1882	301 224 9415	MT-GLAZE	1M JA	1/16W
R1883	301 224 9415	MT-GLAZE	1M JA	1/16W
R1884	301 224 9415	MT-GLAZE	1M JA	1/16W
R1885	301 224 9415	MT-GLAZE	1M JA	1/16W
R1886	301 224 9415	MT-GLAZE	1M JA	1/16W
R1892	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1893	301 225 8110	MT-GLAZE	10 JA	1/16W
R1894	301 225 8110	MT-GLAZE	10 JA	1/16W
R1896	301 225 8110	MT-GLAZE	10 JA	1/16W
R1897	301 225 8110	MT-GLAZE	10 JA	1/16W
R1898	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1899	301 225 8110	MT-GLAZE	10 JA	1/16W
R1902	301 224 9316	MT-GLAZE	1K JA	1/16W
R1903	301 224 9316	MT-GLAZE	1K JA	1/16W
R1904	301 224 9316	MT-GLAZE	1K JA	1/16W
R191	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R192	301 224 9019	MT-GLAZE	10K JA	1/16W
R1921	301 224 9316	MT-GLAZE	1K JA	1/16W
R193	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R1930	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1931	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1932	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1934	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1939	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R194	301 298 6518	MT-GLAZE	3.3K FA	1/16W
R1940	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1942	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1943	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1944	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1954	301 224 9019	MT-GLAZE	10K JA	1/16W
R196	301 294 3115	MT-GLAZE	1K FA	1/16W
R197	301 301 0410	MT-GLAZE	240 FA	1/16W
R2501	301 224 8814	MT-GLAZE	100 JA	1/16W
R2502	301 224 8814	MT-GLAZE	100 JA	1/16W
R2503	301 224 8814	MT-GLAZE	100 JA	1/16W
R2516	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R2517	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R2521	301 224 8913	MT-GLAZE	100K JA	1/16W
R2531	301 224 8814	MT-GLAZE	100 JA	1/16W
R2532	301 224 8814	MT-GLAZE	100 JA	1/16W
R2533	301 224 8814	MT-GLAZE	100 JA	1/16W
R2546	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R2547	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R2551	301 224 8913	MT-GLAZE	100K JA	1/16W
R2561	301 224 8814	MT-GLAZE	100 JA	1/16W
R2562	301 224 8814	MT-GLAZE	100 JA	1/16W
R2563	301 224 8814	MT-GLAZE	100 JA	1/16W
R2576	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R2577	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R2581	301 224 8913	MT-GLAZE	100K JA	1/16W
R2800	301 260 4115	MT-GLAZE	75 JA	1/3W
R2801	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R2802	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R2803	301 224 9316	MT-GLAZE	1K JA	1/16W
R2804	301 224 9316	MT-GLAZE	1K JA	1/16W
R2805	301 260 4115	MT-GLAZE	75 JA	1/3W
R2806	301 224 9019	MT-GLAZE	10K JA	1/16W
R2807	301 224 9019	MT-GLAZE	10K JA	1/16W
R2808	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R2809	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R2816	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R2817	301 224 8814	MT-GLAZE	100 JA	1/16W
R2818	301 224 9019	MT-GLAZE	10K JA	1/16W
R2851	301 224 9019	MT-GLAZE	10K JA	1/16W
R2853	301 224 9019	MT-GLAZE	10K JA	1/16W
R2856	301 224 9019	MT-GLAZE	10K JA	1/16W
R2858	301 224 9019	MT-GLAZE	10K JA	1/16W
R2861	301 224 9019	MT-GLAZE	10K JA	1/16W
R2863	301 237 6715	MT-GLAZE	300 JA	1/16W
R2864	301 237 6715	MT-GLAZE	300 JA	1/16W
R2866	301 237 6715	MT-GLAZE	300 JA	1/16W
R2867	301 237 6715	MT-GLAZE	300 JA	1/16W

Electrical Parts List

Key No.	Part No.	Description			Key No.	Part No.	Description		
R2868	301 225 1616	MT-GLAZE	390 JA	1/16W	R339	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R2869	301 225 0015	MT-GLAZE	270 JA	1/16W	R341	301 256 6017	MT-GLAZE	27K JA	1/10W
R2871	301 225 1616	MT-GLAZE	390 JA	1/16W	R343	301 224 9019	MT-GLAZE	10K JA	1/16W
R2872	301 225 0718	MT-GLAZE	56K JA	1/16W	R344	301 224 9019	MT-GLAZE	10K JA	1/16W
R2873	301 225 1210	MT-GLAZE	4.7K JA	1/16W	R346	301 256 1517	MT-GLAZE	13K JA	1/10W
R2874	301 225 3818	MT-GLAZE	1.5K JA	1/16W	R348	401 344 1914	MT-GLAZE	10K DA	1/16W
R301	301 224 9316	MT-GLAZE	1K JA	1/16W	R349	301 224 9019	MT-GLAZE	10K JA	1/16W
R302	301 224 9316	MT-GLAZE	1K JA	1/16W	R3502	301 225 1418	MT-GLAZE	47K JA	1/16W
R303	301 224 9316	MT-GLAZE	1K JA	1/16W	R3503	301 224 8913	MT-GLAZE	100K JA	1/16W
R304	301 224 9316	MT-GLAZE	1K JA	1/16W	R3508	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R305	301 225 1814	MT-GLAZE	47 JA	1/16W	R3509	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R306	301 224 9712	MT-GLAZE	22 JA	1/16W	R3511	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R307	301 224 9712	MT-GLAZE	22 JA	1/16W	R3512	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R308	301 339 9515	MT-GLAZE	12.1K FA	1/10W	R352	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R3105	301 225 0213	MT-GLAZE	3.3K JA	1/16W	R3532	301 225 1418	MT-GLAZE	47K JA	1/16W
R3106	301 224 9019	MT-GLAZE	10K JA	1/16W	R3533	301 224 8913	MT-GLAZE	100K JA	1/16W
R3107	301 225 0312	MT-GLAZE	33 JA	1/16W	R3538	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R3108	301 225 0312	MT-GLAZE	33 JA	1/16W	R3539	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R3109	301 225 0312	MT-GLAZE	33 JA	1/16W	R3541	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R311	301 224 9019	MT-GLAZE	10K JA	1/16W	R3543	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R3110	301 225 0213	MT-GLAZE	3.3K JA	1/16W	R3562	301 225 1418	MT-GLAZE	47K JA	1/16W
R3111	301 225 0312	MT-GLAZE	33 JA	1/16W	R3563	301 224 8913	MT-GLAZE	100K JA	1/16W
R3112	301 225 0312	MT-GLAZE	33 JA	1/16W	R3568	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R3113	301 225 0312	MT-GLAZE	33 JA	1/16W	R3569	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R3114	301 225 0312	MT-GLAZE	33 JA	1/16W	R3571	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R3116	301 225 0312	MT-GLAZE	33 JA	1/16W	R3572	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R3117	301 225 0312	MT-GLAZE	33 JA	1/16W	R361	301 339 9614	MT-GLAZE	23.2K FA	1/10W
R3118	301 224 9613	MT-GLAZE	2.7K JA	1/16W	R362	301 265 4516	MT-GLAZE	68K FA	1/10W
R3119	301 302 5414	MT-GLAZE	220 FA	1/16W	R371	301 224 9415	MT-GLAZE	1M JA	1/16W
R312	301 224 9019	MT-GLAZE	10K JA	1/16W	R3801	301 225 8110	MT-GLAZE	10 JA	1/16W
R3121	301 294 2613	MT-GLAZE	4.7K FA	1/16W	R3803	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R3122	301 294 2613	MT-GLAZE	4.7K FA	1/16W	R3804	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R3123	301 225 0312	MT-GLAZE	33 JA	1/16W	R386	301 263 7420	MT-GLAZE	75 JA	1/16W
R3124	301 225 0312	MT-GLAZE	33 JA	1/16W	R391	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R3126	301 225 0312	MT-GLAZE	33 JA	1/16W	R392	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R3127	301 225 0312	MT-GLAZE	33 JA	1/16W	R393	301 224 9019	MT-GLAZE	10K JA	1/16W
R314	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R401	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R316	301 225 0213	MT-GLAZE	3.3K JA	1/16W	R402	301 224 8814	MT-GLAZE	100 JA	1/16W
R317	301 224 8814	MT-GLAZE	100 JA	1/16W	R403	301 224 8814	MT-GLAZE	100 JA	1/16W
R318	301 225 0213	MT-GLAZE	3.3K JA	1/16W	R404	301 224 8814	MT-GLAZE	100 JA	1/16W
R319	301 225 0213	MT-GLAZE	3.3K JA	1/16W	R405	301 225 1814	MT-GLAZE	47 JA	1/16W
R3201	301 265 0419	MT-GLAZE	39K FA	1/10W	R406	301 225 1814	MT-GLAZE	47 JA	1/16W
R3202	301 265 3113	MT-GLAZE	5.6K FA	1/10W	R409	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R3203	301 229 3913	MT-GLAZE	180 JA	1/16W	R4131	301 234 7616	MT-GLAZE	3.9 JA	1W
R3204	301 237 2915	MT-GLAZE	51 JA	1/16W	R4132	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R321	301 225 0213	MT-GLAZE	3.3K JA	1/16W	R4133	301 224 9019	MT-GLAZE	10K JA	1/16W
R322	301 225 0213	MT-GLAZE	3.3K JA	1/16W	R4134	301 301 3718	MT-GLAZE	2K FA	1/16W
R3221	301 336 8818	MT-GLAZE	6.8K FA	1/16W	R4136	301 294 3115	MT-GLAZE	1K FA	1/16W
R3223	301 294 3115	MT-GLAZE	1K FA	1/16W	R4137	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R3224	301 301 8218	MT-GLAZE	680 FA	1/16W	R4138	301 234 7616	MT-GLAZE	3.9 JA	1W
R3226	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R4141	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R3229	301 294 3115	MT-GLAZE	1K FA	1/16W	R4142	301 224 9019	MT-GLAZE	10K JA	1/16W
R323	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R4143	301 301 8119	MT-GLAZE	3.9K FA	1/16W
R3231	301 294 3115	MT-GLAZE	1K FA	1/16W	R4144	401 344 1914	MT-GLAZE	10K DA	1/16W
R324	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R4146	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R325	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R4147	301 236 7119	MT-GLAZE	620 JA	1/16W
R3261	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R4151	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R3262	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R4152	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R3263	301 224 9118	MT-GLAZE	150 JA	1/16W	R4153	301 224 9019	MT-GLAZE	10K JA	1/16W
R3264	301 225 8011	MT-GLAZE	330 JA	1/16W	R4154	301 301 3718	MT-GLAZE	2K FA	1/16W
R3266	301 301 3510	MT-GLAZE	200 JA	1/16W	R4156	301 294 3115	MT-GLAZE	1K FA	1/16W
R3267	301 224 9316	MT-GLAZE	1K JA	1/16W	R4157	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R3268	301 263 6928	MT-GLAZE	2K JA	1/16W	R4161	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R331	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R4162	301 224 9019	MT-GLAZE	10K JA	1/16W
R332	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R4163	301 301 8119	MT-GLAZE	3.9K FA	1/16W
R333	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R4164	401 344 1914	MT-GLAZE	10K DA	1/16W
R336	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R4166	301 037 5017	MT-GLAZE	0.000 ZA	1/10W

Electrical Parts List

Key No.	Part No.	Description		
R4167	301 236 7119	MT-GLAZE	620 JA	1/16W
R417	301 224 9712	MT-GLAZE	22 JA	1/16W
R418	301 224 9712	MT-GLAZE	22 JA	1/16W
R419	401 344 1914	MT-GLAZE	10K DA	1/16W
R420	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R421	301 225 1814	MT-GLAZE	47 JA	1/16W
R422	301 225 1814	MT-GLAZE	47 JA	1/16W
R423	301 225 1814	MT-GLAZE	47 JA	1/16W
R424	301 225 1814	MT-GLAZE	47 JA	1/16W
R426	301 225 1814	MT-GLAZE	47 JA	1/16W
R427	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R428	301 225 1814	MT-GLAZE	47 JA	1/16W
R429	301 225 1814	MT-GLAZE	47 JA	1/16W
R430	301 225 1814	MT-GLAZE	47 JA	1/16W
R432	301 225 1814	MT-GLAZE	47 JA	1/16W
R435	301 225 1814	MT-GLAZE	47 JA	1/16W
R438	301 225 1814	MT-GLAZE	47 JA	1/16W
R439	301 225 1814	MT-GLAZE	47 JA	1/16W
R440	301 225 1814	MT-GLAZE	47 JA	1/16W
R441	301 225 1814	MT-GLAZE	47 JA	1/16W
R444	301 225 1814	MT-GLAZE	47 JA	1/16W
R447	301 225 1814	MT-GLAZE	47 JA	1/16W
R449	301 225 1814	MT-GLAZE	47 JA	1/16W
R450	301 225 1814	MT-GLAZE	47 JA	1/16W
R453	301 225 1814	MT-GLAZE	47 JA	1/16W
R454	301 225 1814	MT-GLAZE	47 JA	1/16W
R457	301 225 1814	MT-GLAZE	47 JA	1/16W
R460	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R461	301 225 1814	MT-GLAZE	47 JA	1/16W
R462	301 225 1814	MT-GLAZE	47 JA	1/16W
R4621	301 224 9019	MT-GLAZE	10K JA	1/16W
R4622	301 224 9019	MT-GLAZE	10K JA	1/16W
R4623	301 224 9910	MT-GLAZE	22K JA	1/16W
R4624	301 224 9910	MT-GLAZE	22K JA	1/16W
R463	301 225 1814	MT-GLAZE	47 JA	1/16W
R464	301 225 1814	MT-GLAZE	47 JA	1/16W
R4641	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R4642	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R4643	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R4644	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R469	301 225 1814	MT-GLAZE	47 JA	1/16W
R470	301 225 1814	MT-GLAZE	47 JA	1/16W
R471	301 225 1814	MT-GLAZE	47 JA	1/16W
R472	301 225 1814	MT-GLAZE	47 JA	1/16W
R475	301 225 1814	MT-GLAZE	47 JA	1/16W
R476	301 225 1814	MT-GLAZE	47 JA	1/16W
R478	301 225 1814	MT-GLAZE	47 JA	1/16W
R4801	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R4803	301 224 9316	MT-GLAZE	1K JA	1/16W
R4804	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R4806	301 235 1415	MT-GLAZE	1.2K JA	1/16W
R4808	301 224 9514	MT-GLAZE	2.2K JA	1/16W
R4809	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R4811	301 224 9019	MT-GLAZE	10K JA	1/16W
R4812	301 224 9019	MT-GLAZE	10K JA	1/16W
R4813	301 224 9019	MT-GLAZE	10K JA	1/16W
R4814	301 235 1415	MT-GLAZE	1.2K JA	1/16W
R4891	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R4892	301 224 8814	MT-GLAZE	100 JA	1/16W
R4893	301 286 4717	MT-GLAZE	30K JA	1/16W
R4894	401 344 1914	MT-GLAZE	10K DA	1/16W
R4896	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R4897	301 225 8011	MT-GLAZE	330 JA	1/16W
R501	301 224 9316	MT-GLAZE	1K JA	1/16W
R502	301 225 8110	MT-GLAZE	10 JA	1/16W
R503	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5101	301 198 7714	MT-GLAZE	33 JA	1W
R5102	301 224 9019	MT-GLAZE	10K JA	1/16W
R5103	301 294 2613	MT-GLAZE	4.7K FA	1/16W
R5104	301 301 3718	MT-GLAZE	2K FA	1/16W
R5106	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R5107	301 226 5514	MT-GLAZE	120 JA	1/16W
R5108	301 198 7714	MT-GLAZE	33 JA	1W
R5109	301 198 7714	MT-GLAZE	33 JA	1W
R511	301 224 8814	MT-GLAZE	100 JA	1/16W
R5111	301 234 8118	MT-GLAZE	4.7 JA	1W
R5112	301 224 9019	MT-GLAZE	10K JA	1/16W
R5113	301 298 6518	MT-GLAZE	3.3K FA	1/16W
R5114	301 294 3115	MT-GLAZE	1K FA	1/16W
R5116	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R5117	301 301 0410	MT-GLAZE	240 FA	1/16W
R512	301 224 8814	MT-GLAZE	100 JA	1/16W
R5121	301 224 9019	MT-GLAZE	10K JA	1/16W
R5122	301 229 7218	MT-GLAZE	18K JA	1/16W
R5123	301 224 9316	MT-GLAZE	1K JA	1/16W
R5124	301 224 9316	MT-GLAZE	1K JA	1/16W
R5126	301 224 9019	MT-GLAZE	10K JA	1/16W
R5127	301 224 9019	MT-GLAZE	10K JA	1/16W
R5128	301 224 9217	MT-GLAZE	15K JA	1/16W
R5129	301 224 9316	MT-GLAZE	1K JA	1/16W
R513	301 224 8814	MT-GLAZE	100 JA	1/16W
R5131	301 224 9217	MT-GLAZE	15K JA	1/16W
R5132	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R5133	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R5141	301 224 9019	MT-GLAZE	10K JA	1/16W
R5142	301 224 9613	MT-GLAZE	2.7K JA	1/16W
R5151	301 224 9316	MT-GLAZE	1K JA	1/16W
R5204	301 225 8813	MT-GLAZE	39 JA	1/16W
R5206	301 225 8813	MT-GLAZE	39 JA	1/16W
R5207	301 225 8813	MT-GLAZE	39 JA	1/16W
R5208	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5209	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R521	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5214	301 224 9019	MT-GLAZE	10K JA	1/16W
R5216	301 224 9019	MT-GLAZE	10K JA	1/16W
R5217	301 224 9019	MT-GLAZE	10K JA	1/16W
R5218	301 224 9019	MT-GLAZE	10K JA	1/16W
R522	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5222	301 224 9316	MT-GLAZE	1K JA	1/16W
R5223	301 224 9316	MT-GLAZE	1K JA	1/16W
R5224	301 225 8110	MT-GLAZE	10 JA	1/16W
R5226	301 225 8110	MT-GLAZE	10 JA	1/16W
R5227	301 225 8110	MT-GLAZE	10 JA	1/16W
R5228	301 225 8110	MT-GLAZE	10 JA	1/16W
R5229	301 225 8110	MT-GLAZE	10 JA	1/16W
R5231	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R5232	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R524	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5241	301 225 1913	MT-GLAZE	68 JA	1/16W
R5242	301 225 1913	MT-GLAZE	68 JA	1/16W
R5243	301 225 1913	MT-GLAZE	68 JA	1/16W
R5251	301 225 1111	MT-GLAZE	27 JA	1/16W
R5252	301 225 1111	MT-GLAZE	27 JA	1/16W
R5253	301 225 1111	MT-GLAZE	27 JA	1/16W
R5254	301 224 9316	MT-GLAZE	1K JA	1/16W
R5256	301 224 9316	MT-GLAZE	1K JA	1/16W
R5257	301 224 9316	MT-GLAZE	1K JA	1/16W
R5258	301 225 8110	MT-GLAZE	10 JA	1/16W
R5259	301 225 8110	MT-GLAZE	10 JA	1/16W
R526	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5261	301 225 8110	MT-GLAZE	10 JA	1/16W
R5271	301 225 8110	MT-GLAZE	10 JA	1/16W
R5272	301 225 8110	MT-GLAZE	10 JA	1/16W
R5273	301 225 8110	MT-GLAZE	10 JA	1/16W

Electrical Parts List

Key No.	Part No.	Description		
R5274	301 224 9316	MT-GLAZE	1K JA	1/16W
R5276	301 224 9316	MT-GLAZE	1K JA	1/16W
R5277	301 224 9316	MT-GLAZE	1K JA	1/16W
R5278	301 225 8110	MT-GLAZE	10 JA	1/16W
R5279	301 225 8110	MT-GLAZE	10 JA	1/16W
R5281	301 225 8110	MT-GLAZE	10 JA	1/16W
R5288	301 224 9019	MT-GLAZE	10K JA	1/16W
R5289	301 225 8110	MT-GLAZE	10 JA	1/16W
R5301	301 224 9019	MT-GLAZE	10K JA	1/16W
R5302	301 224 9019	MT-GLAZE	10K JA	1/16W
R5303	301 224 9019	MT-GLAZE	10K JA	1/16W
R5306	301 224 8913	MT-GLAZE	100K JA	1/16W
R5307	301 224 9316	MT-GLAZE	1K JA	1/16W
R5308	301 224 9316	MT-GLAZE	1K JA	1/16W
R5309	301 224 9316	MT-GLAZE	1K JA	1/16W
R531	301 224 9316	MT-GLAZE	1K JA	1/16W
R5311	301 224 9316	MT-GLAZE	1K JA	1/16W
R5312	301 224 9316	MT-GLAZE	1K JA	1/16W
R532	301 225 8110	MT-GLAZE	10 JA	1/16W
R5321	301 224 8814	MT-GLAZE	100 JA	1/16W
R5322	301 224 9415	MT-GLAZE	1M JA	1/16W
R5323	301 225 1517	MT-GLAZE	3.9K JA	1/16W
R5324	301 224 8814	MT-GLAZE	100 JA	1/16W
R5326	301 224 8814	MT-GLAZE	100 JA	1/16W
R534	301 224 9019	MT-GLAZE	10K JA	1/16W
R5341	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5351	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5361	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5362	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5363	301 225 8110	MT-GLAZE	10 JA	1/16W
R5364	301 225 8110	MT-GLAZE	10 JA	1/16W
R5366	301 225 8110	MT-GLAZE	10 JA	1/16W
R5367	301 225 8110	MT-GLAZE	10 JA	1/16W
R541	301 224 8814	MT-GLAZE	100 JA	1/16W
R542	301 224 8814	MT-GLAZE	100 JA	1/16W
R543	301 224 8814	MT-GLAZE	100 JA	1/16W
R5501	301 224 9316	MT-GLAZE	1K JA	1/16W
R5502	301 224 9316	MT-GLAZE	1K JA	1/16W
R5503	301 190 1710	MT-GLAZE	0.000 ZA	1W
R5504	301 225 2019	MT-GLAZE	680 JA	1/16W
R5508	301 225 3818	MT-GLAZE	1.5K JA	1/16W
R5509	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R551	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5511	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5512	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R552	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R554	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5551	301 190 1710	MT-GLAZE	0.000 ZA	1W
R5552	301 224 9316	MT-GLAZE	1K JA	1/16W
R5554	301 224 9316	MT-GLAZE	1K JA	1/16W
R5557	301 225 2019	MT-GLAZE	680 JA	1/16W
R5558	301 225 3818	MT-GLAZE	1.5K JA	1/16W
R5559	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R556	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5561	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5562	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5601	301 241 6213	MT-GLAZE	6.8 JA	1W
R5602	301 241 6213	MT-GLAZE	6.8 JA	1W
R5603	301 224 9019	MT-GLAZE	10K JA	1/16W
R5604	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R5606	301 301 3718	MT-GLAZE	2K FA	1/16W
R5607	301 294 3115	MT-GLAZE	1K FA	1/16W
R5608	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R561	301 224 9316	MT-GLAZE	1K JA	1/16W
R562	301 225 8110	MT-GLAZE	10 JA	1/16W
R5621	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R5622	301 224 8913	MT-GLAZE	100K JA	1/16W
R5623	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R5624	401 344 1914	MT-GLAZE	10K DA	1/16W
R5626	401 344 1914	MT-GLAZE	10K DA	1/16W
R5628	301 312 6913	MT-GLAZE	160 JA	1/16W
R563	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5641	301 224 8913	MT-GLAZE	100K JA	1/16W
R5642	301 299 5312	MT-GLAZE	12K FA	1/16W
R5643	401 344 1914	MT-GLAZE	10K DA	1/16W
R5644	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R5661	301 298 6518	MT-GLAZE	3.3K FA	1/16W
R5662	301 336 8818	MT-GLAZE	6.8K FA	1/16W
R5663	301 336 8818	MT-GLAZE	6.8K FA	1/16W
R5664	301 302 3410	MT-GLAZE	13K JA	1/16W
R5666	301 035 4111	MT-GLAZE	0.000 ZA	1/8W
R5667	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R5691	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R5692	301 224 9019	MT-GLAZE	10K JA	1/16W
R5694	301 286 4717	MT-GLAZE	30K JA	1/16W
R5696	401 344 1914	MT-GLAZE	10K DA	1/16W
R5697	301 225 8011	MT-GLAZE	330 JA	1/16W
R5698	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R571	301 224 8814	MT-GLAZE	100 JA	1/16W
R572	301 224 8814	MT-GLAZE	100 JA	1/16W
R573	301 224 8814	MT-GLAZE	100 JA	1/16W
R581	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R582	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R584	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R586	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R6501	301 225 8110	MT-GLAZE	10 JA	1/16W
R6502	301 225 8110	MT-GLAZE	10 JA	1/16W
R6503	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R6504	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R6531	301 102 7410	MT-GLAZE	10 JA	1W
R6532	301 102 7410	MT-GLAZE	10 JA	1W
R6533	301 224 9316	MT-GLAZE	1K JA	1/16W
R6536	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R6537	301 224 9316	MT-GLAZE	1K JA	1/16W
R6538	301 226 2414	MT-GLAZE	560 JA	1/16W
R6541	301 225 8110	MT-GLAZE	10 JA	1/16W
R6542	301 224 9316	MT-GLAZE	1K JA	1/16W
R6544	301 225 8110	MT-GLAZE	10 JA	1/16W
R6546	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R6547	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R6561	301 224 9316	MT-GLAZE	1K JA	1/16W
R6563	301 102 7410	MT-GLAZE	10 JA	1W
R6564	301 102 7410	MT-GLAZE	10 JA	1W
R6566	301 224 9316	MT-GLAZE	1K JA	1/16W
R6568	301 226 2414	MT-GLAZE	560 JA	1/16W
R6572	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R6573	301 224 9316	MT-GLAZE	1K JA	1/16W
R6801	301 298 6518	MT-GLAZE	3.3K FA	1/16W
R6802	301 299 2410	MT-GLAZE	5.6K FA	1/16W
R6803	301 294 3214	MT-GLAZE	47K FA	1/16W
R6804	301 294 4518	MT-GLAZE	18K FA	1/16W
R6806	301 298 5511	MT-GLAZE	8.2K FA	1/16W
R6807	301 299 2410	MT-GLAZE	5.6K FA	1/16W
R6808	301 298 6518	MT-GLAZE	3.3K FA	1/16W
R6809	301 298 5511	MT-GLAZE	8.2K FA	1/16W
R6811	301 299 2410	MT-GLAZE	5.6K FA	1/16W
R6812	301 298 6518	MT-GLAZE	3.3K FA	1/16W
R6813	401 344 1914	MT-GLAZE	10K DA	1/16W
R6814	401 344 1914	MT-GLAZE	10K DA	1/16W
R6816	401 344 1914	MT-GLAZE	10K DA	1/16W
R7201	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7203	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7205	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7206	301 226 1516	MT-GLAZE	0.000 ZA	1/16W

Electrical Parts List

Key No.	Part No.	Description		
R7208	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R7209	301 226 5415	MT-GLAZE	56 JA	1/16W
R7212	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7213	301 224 8814	MT-GLAZE	100 JA	1/16W
R7214	301 224 8814	MT-GLAZE	100 JA	1/16W
R7216	301 224 8814	MT-GLAZE	100 JA	1/16W
R7217	301 224 8814	MT-GLAZE	100 JA	1/16W
R7218	301 224 8814	MT-GLAZE	100 JA	1/16W
R7219	301 226 5415	MT-GLAZE	56 JA	1/16W
R7221	301 226 5415	MT-GLAZE	56 JA	1/16W
R7222	301 226 5415	MT-GLAZE	56 JA	1/16W
R7223	301 226 5415	MT-GLAZE	56 JA	1/16W
R7224	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R7226	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R7227	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R7228	301 225 0312	MT-GLAZE	33 JA	1/16W
R7229	301 225 0312	MT-GLAZE	33 JA	1/16W
R7231	301 225 0312	MT-GLAZE	33 JA	1/16W
R7232	301 225 8110	MT-GLAZE	10 JA	1/16W
R7233	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7234	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R7236	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R7237	301 225 8011	MT-GLAZE	330 JA	1/16W
R7238	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7239	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7241	301 224 9514	MT-GLAZE	2.2K JA	1/16W
R7242	301 225 8011	MT-GLAZE	330 JA	1/16W
R7261	301 225 0312	MT-GLAZE	33 JA	1/16W
R7281	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R7282	301 224 9019	MT-GLAZE	10K JA	1/16W
R7283	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R7284	301 338 8113	MT-GLAZE	1.2K FA	1/16W
R7286	301 294 3115	MT-GLAZE	1K FA	1/16W
R7287	301 263 7420	MT-GLAZE	75 JA	1/16W
R7288	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R7291	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R7292	301 224 9019	MT-GLAZE	10K JA	1/16W
R7293	301 272 7814	MT-GLAZE	100 FA	1/16W
R7294	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7295	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R7296	301 294 3115	MT-GLAZE	1K FA	1/16W
R7821	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7822	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7823	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7824	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7825	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7826	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7828	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7831	301 224 9316	MT-GLAZE	1K JA	1/16W
R7832	301 224 9316	MT-GLAZE	1K JA	1/16W
R7833	301 224 9316	MT-GLAZE	1K JA	1/16W
R7834	301 224 9316	MT-GLAZE	1K JA	1/16W
R7836	301 224 9316	MT-GLAZE	1K JA	1/16W
R7837	301 224 9019	MT-GLAZE	10K JA	1/16W
R7838	301 224 9019	MT-GLAZE	10K JA	1/16W
R7839	301 224 9019	MT-GLAZE	10K JA	1/16W
R7841	301 224 9019	MT-GLAZE	10K JA	1/16W
R7842	301 224 9019	MT-GLAZE	10K JA	1/16W
R7843	301 224 9019	MT-GLAZE	10K JA	1/16W
R7844	301 224 9019	MT-GLAZE	10K JA	1/16W
R7846	301 224 9019	MT-GLAZE	10K JA	1/16W
R7847	301 224 9019	MT-GLAZE	10K JA	1/16W
R7848	301 224 9019	MT-GLAZE	10K JA	1/16W
R8001	301 224 9019	MT-GLAZE	10K JA	1/16W
R8002	301 229 3913	MT-GLAZE	180 JA	1/16W
R8003	301 224 8913	MT-GLAZE	100K JA	1/16W
R8004	301 225 0312	MT-GLAZE	33 JA	1/16W
R8006	301 225 0312	MT-GLAZE	33 JA	1/16W
R8007	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8008	301 224 9019	MT-GLAZE	10K JA	1/16W
R8009	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R801	301 224 9019	MT-GLAZE	10K JA	1/16W
R8011	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8013	301 224 9514	MT-GLAZE	2.2K JA	1/16W
R8016	301 225 0312	MT-GLAZE	33 JA	1/16W
R8017	301 225 0312	MT-GLAZE	33 JA	1/16W
R8018	301 225 0312	MT-GLAZE	33 JA	1/16W
R8019	301 225 0312	MT-GLAZE	33 JA	1/16W
R8022	301 224 9019	MT-GLAZE	10K JA	1/16W
R804	301 224 9019	MT-GLAZE	10K JA	1/16W
R806	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R807	301 224 9019	MT-GLAZE	10K JA	1/16W
R808	301 224 9019	MT-GLAZE	10K JA	1/16W
R809	301 225 8516	MT-GLAZE	1.8K JA	1/16W
R8101	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R8102	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R8103	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8104	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8111	301 224 9019	MT-GLAZE	10K JA	1/16W
R812	301 224 9019	MT-GLAZE	10K JA	1/16W
R8121	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8122	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8123	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R8124	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R8126	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R8128	301 224 9019	MT-GLAZE	10K JA	1/16W
R8129	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8131	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8132	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8133	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8134	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R839	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R861	301 225 0718	MT-GLAZE	56K JA	1/16W
R862	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R863	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R864	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R866	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R867	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R868	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R869	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R8801	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R8802	301 224 9019	MT-GLAZE	10K JA	1/16W
R8803	301 302 7824	MT-GLAZE	30K DA	1/16W
R8804	401 344 1914	MT-GLAZE	10K DA	1/16W
R8806	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R8807	301 225 8011	MT-GLAZE	330 JA	1/16W
R881	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R882	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R8821	301 309 4113	MT-GLAZE	560K DA	1/16W
R8822	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R883	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R8831	301 309 4113	MT-GLAZE	560K DA	1/16W
R8832	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R884	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R8841	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8842	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8843	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R886	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R887	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R888	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R894	301 225 0213	MT-GLAZE	3.3K JA	1/16W
RB301	945 036 0986	R-NETWORK 47X4		1/32W
	945 037 0831	R-NETWORK 47X4		1/16W
RB302	945 036 0986	R-NETWORK 47X4		1/32W

Electrical Parts List

Key No.	Part No.	Description	
	945 037 0831	R-NETWORK 47X4	1/16W
RB303	945 036 0986	R-NETWORK 47X4	1/32W
	945 037 0831	R-NETWORK 47X4	1/16W
RB304	945 036 0986	R-NETWORK 47X4	1/32W
	945 037 0831	R-NETWORK 47X4	1/16W
RB306	945 036 0986	R-NETWORK 47X4	1/32W
	945 037 0831	R-NETWORK 47X4	1/16W
RB307	945 036 0986	R-NETWORK 47X4	1/32W
	945 037 0831	R-NETWORK 47X4	1/16W
RB308	945 036 0986	R-NETWORK 47X4	1/32W
	945 037 0831	R-NETWORK 47X4	1/16W
RB309	945 036 0986	R-NETWORK 47X4	1/32W
	945 037 0831	R-NETWORK 47X4	1/16W
RB3101	645 049 0675	R-NETWORK 33X4	1/32W
	945 049 0690	R-NETWORK 33X4	1/16W
RB3102	645 049 0675	R-NETWORK 33X4	1/32W
	945 049 0690	R-NETWORK 33X4	1/16W
RB3103	645 049 0675	R-NETWORK 33X4	1/32W
	945 049 0690	R-NETWORK 33X4	1/16W
RB3104	645 049 0675	R-NETWORK 33X4	1/32W
	945 049 0690	R-NETWORK 33X4	1/16W
RB3106	645 049 0675	R-NETWORK 33X4	1/32W
	945 049 0690	R-NETWORK 33X4	1/16W
RB3107	645 049 0675	R-NETWORK 33X4	1/32W
	945 049 0690	R-NETWORK 33X4	1/16W
RB3108	645 049 0675	R-NETWORK 33X4	1/32W
	945 049 0690	R-NETWORK 33X4	1/16W
RB3109	645 049 0675	R-NETWORK 33X4	1/32W
	945 049 0690	R-NETWORK 33X4	1/16W
RB3111	645 049 0675	R-NETWORK 33X4	1/32W
	945 049 0690	R-NETWORK 33X4	1/16W
RB3112	645 049 0675	R-NETWORK 33X4	1/32W
	945 049 0690	R-NETWORK 33X4	1/16W
RB3113	645 049 0675	R-NETWORK 33X4	1/32W
	945 049 0690	R-NETWORK 33X4	1/16W
RB3501	945 036 3529	R-NETWORK 0X4	1/32W
	945 037 0817	R-NETWORK 0X4	1/16W
RB3502	945 036 3529	R-NETWORK 0X4	1/32W
	945 037 0817	R-NETWORK 0X4	1/16W
RB3503	945 036 3529	R-NETWORK 0X4	1/32W
	945 037 0817	R-NETWORK 0X4	1/16W
RB3531	945 036 3529	R-NETWORK 0X4	1/32W
	945 037 0817	R-NETWORK 0X4	1/16W
RB3532	945 036 3529	R-NETWORK 0X4	1/32W
	945 037 0817	R-NETWORK 0X4	1/16W
RB3533	945 036 3529	R-NETWORK 0X4	1/32W
	945 037 0817	R-NETWORK 0X4	1/16W
RB3561	945 036 3529	R-NETWORK 0X4	1/32W
	945 037 0817	R-NETWORK 0X4	1/16W
RB3562	945 036 3529	R-NETWORK 0X4	1/32W
	945 037 0817	R-NETWORK 0X4	1/16W
RB3563	945 036 3529	R-NETWORK 0X4	1/32W
	945 037 0817	R-NETWORK 0X4	1/16W
RB401	945 036 0986	R-NETWORK 47X4	1/32W
	945 037 0831	R-NETWORK 47X4	1/16W
RB402	945 036 0986	R-NETWORK 47X4	1/32W
	945 037 0831	R-NETWORK 47X4	1/16W
RB403	945 036 0986	R-NETWORK 47X4	1/32W
	945 037 0831	R-NETWORK 47X4	1/16W
RB404	945 036 0986	R-NETWORK 47X4	1/32W
	945 037 0831	R-NETWORK 47X4	1/16W
RB405	945 036 0986	R-NETWORK 47X4	1/32W
	945 037 0831	R-NETWORK 47X4	1/16W
RB406	945 036 0986	R-NETWORK 47X4	1/32W
	945 037 0831	R-NETWORK 47X4	1/16W
RB407	945 036 0986	R-NETWORK 47X4	1/32W
	945 037 0831	R-NETWORK 47X4	1/16W
RB408	945 036 0986	R-NETWORK 47X4	1/32W
	945 037 0831	R-NETWORK 47X4	1/16W
RB409	945 036 0986	R-NETWORK 47X4	1/32W
	945 037 0831	R-NETWORK 47X4	1/16W
RB410	945 036 0986	R-NETWORK 47X4	1/32W
	945 037 0831	R-NETWORK 47X4	1/16W
RB411	945 036 0986	R-NETWORK 47X4	1/32W
	945 037 0831	R-NETWORK 47X4	1/16W
RB412	945 036 0986	R-NETWORK 47X4	1/32W
	945 037 0831	R-NETWORK 47X4	1/16W
RB413	945 036 0986	R-NETWORK 47X4	1/32W
	945 037 0831	R-NETWORK 47X4	1/16W
RB414	945 036 0986	R-NETWORK 47X4	1/32W
	945 037 0831	R-NETWORK 47X4	1/16W
RB415	945 036 0986	R-NETWORK 47X4	1/32W
	945 037 0831	R-NETWORK 47X4	1/16W
RB416	945 036 0986	R-NETWORK 47X4	1/32W
	945 037 0831	R-NETWORK 47X4	1/16W
RB417	945 036 0986	R-NETWORK 47X4	1/32W
	945 037 0831	R-NETWORK 47X4	1/16W
RB418	945 036 0986	R-NETWORK 47X4	1/32W
	945 037 0831	R-NETWORK 47X4	1/16W
RB501	945 036 3529	R-NETWORK 0X4	1/32W
	945 037 0817	R-NETWORK 0X4	1/16W
RB502	945 036 3529	R-NETWORK 0X4	1/32W
	945 037 0817	R-NETWORK 0X4	1/16W
RB503	945 036 3529	R-NETWORK 0X4	1/32W
	945 037 0817	R-NETWORK 0X4	1/16W
RB531	945 036 3529	R-NETWORK 0X4	1/32W
	945 037 0817	R-NETWORK 0X4	1/16W
RB532	945 036 3529	R-NETWORK 0X4	1/32W
	945 037 0817	R-NETWORK 0X4	1/16W
RB533	945 036 3529	R-NETWORK 0X4	1/32W
	945 037 0817	R-NETWORK 0X4	1/16W
RB561	945 036 3529	R-NETWORK 0X4	1/32W
	945 037 0817	R-NETWORK 0X4	1/16W
RB562	945 036 3529	R-NETWORK 0X4	1/32W
	945 037 0817	R-NETWORK 0X4	1/16W
RB563	945 036 3529	R-NETWORK 0X4	1/32W
	945 037 0817	R-NETWORK 0X4	1/16W
RB7201	945 036 3529	R-NETWORK 0X4	1/32W
	945 037 0817	R-NETWORK 0X4	1/16W
RB7202	945 036 3529	R-NETWORK 0X4	1/32W
	945 037 0817	R-NETWORK 0X4	1/16W
RB7203	945 036 3529	R-NETWORK 0X4	1/32W
	945 037 0817	R-NETWORK 0X4	1/16W
RB7204	945 036 3529	R-NETWORK 0X4	1/32W
	945 037 0817	R-NETWORK 0X4	1/16W
RB7205	945 036 3529	R-NETWORK 0X4	1/32W
	945 037 0817	R-NETWORK 0X4	1/16W
RB7206	945 036 3529	R-NETWORK 0X4	1/32W
	945 037 0817	R-NETWORK 0X4	1/16W
RB8001	645 049 0675	R-NETWORK 33X4	1/32W
	945 049 0690	R-NETWORK 33X4	1/16W
RB8002	645 049 0675	R-NETWORK 33X4	1/32W
	945 049 0690	R-NETWORK 33X4	1/16W
RB8003	645 049 0675	R-NETWORK 33X4	1/32W
	945 049 0690	R-NETWORK 33X4	1/16W
RB8004	645 049 0675	R-NETWORK 33X4	1/32W
	945 049 0690	R-NETWORK 33X4	1/16W
RB8006	645 049 0675	R-NETWORK 33X4	1/32W
	945 049 0690	R-NETWORK 33X4	1/16W
RB8007	645 049 0675	R-NETWORK 33X4	1/32W
	945 049 0690	R-NETWORK 33X4	1/16W
COIL			
L1001	945 070 3660	INDUCTOR,90 OHM	

Electrical Parts List

Key No.	Part No.	Description
L1002	945 070 3660	INDUCTOR,90 OHM
L1003	945 070 3660	INDUCTOR,90 OHM
L1004	945 070 3660	INDUCTOR,90 OHM
L1006	945 086 6037	IMPEDANCE,330 OHM P
L1007	945 086 6037	IMPEDANCE,330 OHM P
L1008	945 086 6037	IMPEDANCE,330 OHM P
L1009	945 086 6037	IMPEDANCE,330 OHM P
L101	945 041 1978	INDUCTOR,330 OHM
L1031	945 086 7560	FILTER,EMI 200MHZ
L1032	945 086 7560	FILTER,EMI 200MHZ
L1033	945 086 7577	FILTER,EMI 400MHZ
L1034	945 086 7577	FILTER,EMI 400MHZ
L1036	945 086 7577	FILTER,EMI 400MHZ
L1051	945 086 7577	FILTER,EMI 400MHZ
L1052	945 086 7577	FILTER,EMI 400MHZ
L1053	945 086 7577	FILTER,EMI 400MHZ
L1056	945 086 7560	FILTER,EMI 200MHZ
L1057	945 086 7560	FILTER,EMI 200MHZ
L1062	945 086 6037	IMPEDANCE,330 OHM P
L1091	945 041 1978	INDUCTOR,330 OHM
L1802	945 041 1978	INDUCTOR,330 OHM
L1803	945 041 1978	INDUCTOR,330 OHM
L1881	945 041 1978	INDUCTOR,330 OHM
L2501	945 041 1978	INDUCTOR,330 OHM
L2521	945 041 1978	INDUCTOR,330 OHM
L2531	945 041 1978	INDUCTOR,330 OHM
L2551	945 041 1978	INDUCTOR,330 OHM
L2561	945 041 1978	INDUCTOR,330 OHM
L2581	945 041 1978	INDUCTOR,330 OHM
L2801	945 086 6037	IMPEDANCE,330 OHM P
L2802	945 086 6037	IMPEDANCE,330 OHM P
L2803	945 086 6037	IMPEDANCE,330 OHM P
L3107	945 041 1978	INDUCTOR,330 OHM
L3108	945 041 1978	INDUCTOR,330 OHM
L3109	945 041 1978	INDUCTOR,330 OHM
L3110	945 041 1978	INDUCTOR,330 OHM
L3111	945 041 1978	INDUCTOR,330 OHM
L3112	945 041 1978	INDUCTOR,330 OHM
L3261	945 059 2240	INDUCTOR,2.2U M
L341	945 050 8364	IMPEDANCE,60 OHM P
L3501	945 041 1978	INDUCTOR,330 OHM
L351	945 050 8364	IMPEDANCE,60 OHM P
L352	945 050 8364	IMPEDANCE,60 OHM P
L353	945 050 8364	IMPEDANCE,60 OHM P
L3531	945 041 1978	INDUCTOR,330 OHM
L354	945 050 8364	IMPEDANCE,60 OHM P
L356	945 050 8364	IMPEDANCE,60 OHM P
L3561	945 041 1978	INDUCTOR,330 OHM
L357	945 050 8364	IMPEDANCE,60 OHM P
L361	945 050 8364	IMPEDANCE,60 OHM P
L362	945 050 8364	IMPEDANCE,60 OHM P
L363	945 050 8364	IMPEDANCE,60 OHM P
L366	945 050 8364	IMPEDANCE,60 OHM P
L368	945 050 8364	IMPEDANCE,60 OHM P
L3801	945 041 1978	INDUCTOR,330 OHM
L401	945 086 6594	IMPEDANCE,100 OHM P
L402	945 086 6594	IMPEDANCE,100 OHM P
L403	945 002 5045	INDUCTOR,0.10U M
L4101	945 041 1978	INDUCTOR,330 OHM
L4601	945 023 2979	INDUCTOR,800 OHM
L4602	945 023 2979	INDUCTOR,800 OHM
L4603	945 023 2979	INDUCTOR,800 OHM
L4604	945 023 2979	INDUCTOR,800 OHM
L4606	945 023 2979	INDUCTOR,800 OHM
L4607	945 030 9855	INDUCTOR,600 OHM
L4608	945 030 9855	INDUCTOR,600 OHM
L4609	945 023 2979	INDUCTOR,800 OHM
L4611	945 086 6037	IMPEDANCE,330 OHM P
L4612	945 023 2979	INDUCTOR,800 OHM
L4613	945 023 2979	INDUCTOR,800 OHM
L4614	945 023 2979	INDUCTOR,800 OHM
L4616	945 086 6037	IMPEDANCE,330 OHM P
L4618	945 086 6037	IMPEDANCE,330 OHM P
L4641	945 086 6037	IMPEDANCE,330 OHM P
L4642	945 086 6037	IMPEDANCE,330 OHM P
L4643	945 086 6037	IMPEDANCE,330 OHM P
L4644	945 086 6037	IMPEDANCE,330 OHM P
L4646	945 086 6037	IMPEDANCE,330 OHM P
L4647	945 086 6037	IMPEDANCE,330 OHM P
L4648	945 086 6037	IMPEDANCE,330 OHM P
L4801	945 041 1978	INDUCTOR,330 OHM
L4817	945 086 6037	IMPEDANCE,330 OHM P
L4818	945 086 6037	IMPEDANCE,330 OHM P
L4819	945 086 6037	IMPEDANCE,330 OHM P
L4821	945 086 6037	IMPEDANCE,330 OHM P
L4822	945 086 6037	IMPEDANCE,330 OHM P
L4823	945 086 6037	IMPEDANCE,330 OHM P
L4824	945 086 6037	IMPEDANCE,330 OHM P
L4826	945 086 6037	IMPEDANCE,330 OHM P
L501	945 041 1978	INDUCTOR,330 OHM
L5121	945 041 1978	INDUCTOR,330 OHM
L5201	945 041 1978	INDUCTOR,330 OHM
L5202	945 041 1978	INDUCTOR,330 OHM
L521	945 041 1978	INDUCTOR,330 OHM
L5301	945 041 1978	INDUCTOR,330 OHM
L531	945 041 1978	INDUCTOR,330 OHM
L5321	945 041 1978	INDUCTOR,330 OHM
L5341	945 041 1978	INDUCTOR,330 OHM
L5361	945 041 1978	INDUCTOR,330 OHM
L551	945 041 1978	INDUCTOR,330 OHM
L561	945 041 1978	INDUCTOR,330 OHM
L5662	945 062 2930	INDUCTOR,10U M
L581	945 041 1978	INDUCTOR,330 OHM
L7201	945 041 1978	INDUCTOR,330 OHM
L7202	945 041 1978	INDUCTOR,330 OHM
L7203	945 041 1978	INDUCTOR,330 OHM
L7804	945 086 6037	IMPEDANCE,330 OHM P
L7806	945 086 6037	IMPEDANCE,330 OHM P
L7807	945 086 6037	IMPEDANCE,330 OHM P
L7808	945 086 6037	IMPEDANCE,330 OHM P
L7809	945 086 6037	IMPEDANCE,330 OHM P
L7811	945 086 6037	IMPEDANCE,330 OHM P
L7812	945 086 6037	IMPEDANCE,330 OHM P
L7813	945 086 6037	IMPEDANCE,330 OHM P
L7814	945 086 6037	IMPEDANCE,330 OHM P
L7816	945 086 6037	IMPEDANCE,330 OHM P
L7817	945 086 6037	IMPEDANCE,330 OHM P
L7818	945 086 6037	IMPEDANCE,330 OHM P
L7819	945 086 6037	IMPEDANCE,330 OHM P
L7821	945 041 1978	INDUCTOR,330 OHM
L8001	945 041 1978	INDUCTOR,330 OHM
L8002	945 041 1978	INDUCTOR,330 OHM
L8003	945 041 1978	INDUCTOR,330 OHM
L8004	945 041 1978	INDUCTOR,330 OHM
L8006	945 041 1978	INDUCTOR,330 OHM
L8007	945 041 1978	INDUCTOR,330 OHM
L8161	945 004 6644	INDUCTOR,220 OHM
L861	945 041 1978	INDUCTOR,330 OHM
L8821	945 086 6037	IMPEDANCE,330 OHM P
L8822	945 086 6037	IMPEDANCE,330 OHM P
L8823	945 086 6037	IMPEDANCE,330 OHM P
L8831	945 086 6037	IMPEDANCE,330 OHM P
L8832	945 086 6037	IMPEDANCE,330 OHM P
L8833	945 086 6037	IMPEDANCE,330 OHM P

Electrical Parts List

Key No.	Part No.	Description
DIODE		
D1001	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
D1002	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
D1003	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
D1004	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
D1031	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
D1032	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
D1051	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
D1052	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
D1054	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
D1061	307 254 2914	ZENER DIODE 02DZ6.8Y(TPH3
D1062	307 254 2914	ZENER DIODE 02DZ6.8Y(TPH3
D1091	307 205 5216	DIODE RB521S-30-TE61
D1092	307 205 5216	DIODE RB521S-30-TE61
D1411	307 163 0414	DIODE 1SS352-(TPH3)
D1412	307 163 0414	DIODE 1SS352-(TPH3)
D1801	307 163 0414	DIODE 1SS352-(TPH3)
D1802	307 163 0414	DIODE 1SS352-(TPH3)
D191	307 163 0414	DIODE 1SS352-(TPH3)
D2851	307 209 7513	LED SML-210YT T86 L
D2852	307 209 7513	LED SML-210YT T86 L
D2853	307 203 7816	LED SML-210LT T86 M
D2854	307 203 7915	LED SML-210MT T86 M
D2856	307 203 7816	LED SML-210LT T86 M
D2861	307 254 2815	ZENER DIODE 02DZ5.6Y(TPH3
D2862	307 254 2815	ZENER DIODE 02DZ5.6Y(TPH3
D2863	307 254 2815	ZENER DIODE 02DZ5.6Y(TPH3
D2864	307 254 2815	ZENER DIODE 02DZ5.6Y(TPH3
D2866	307 254 2815	ZENER DIODE 02DZ5.6Y(TPH3
D4141	307 163 0414	DIODE 1SS352-(TPH3)
D4161	307 163 0414	DIODE 1SS352-(TPH3)
D4601	307 163 0414	DIODE 1SS352-(TPH3)
D4602	307 163 0414	DIODE 1SS352-(TPH3)
D4603	307 163 0414	DIODE 1SS352-(TPH3)
D4611	307 163 0414	DIODE 1SS352-(TPH3)
D4621	307 163 0414	DIODE 1SS352-(TPH3)
D4622	307 163 0414	DIODE 1SS352-(TPH3)
D4801	307 254 2914	ZENER DIODE 02DZ6.8Y(TPH3
D4802	307 254 2914	ZENER DIODE 02DZ6.8Y(TPH3
D4807	307 163 0414	DIODE 1SS352-(TPH3)
D5101	307 163 0414	DIODE 1SS352-(TPH3)
D5111	307 163 0414	DIODE 1SS352-(TPH3)
D5501	307 163 0414	DIODE 1SS352-(TPH3)
D5502	307 163 0414	DIODE 1SS352-(TPH3)
D5561	307 163 0414	DIODE 1SS352-(TPH3)
D5562	307 163 0414	DIODE 1SS352-(TPH3)
D5661	307 254 2716	DIODE CMS16
	307 201 2724	DIODE RB051L-40-TE25
D5691	307 163 0414	DIODE 1SS352-(TPH3)
D6531	307 163 0414	DIODE 1SS352-(TPH3)
D6532	307 163 0414	DIODE 1SS352-(TPH3)
D6561	307 163 0414	DIODE 1SS352-(TPH3)
D6562	307 163 0414	DIODE 1SS352-(TPH3)
D6801	307 254 2815	ZENER DIODE 02DZ5.6Y(TPH3
D6802	307 254 2815	ZENER DIODE 02DZ5.6Y(TPH3
D6803	307 254 2815	ZENER DIODE 02DZ5.6Y(TPH3
D7241	307 228 1011	LED SML-310MT-M-T86
D7291	307 163 0414	DIODE 1SS352-(TPH3)
D7831	307 163 0414	DIODE 1SS352-(TPH3)
D7832	307 163 0414	DIODE 1SS352-(TPH3)
D7833	307 163 0414	DIODE 1SS352-(TPH3)
D7834	307 163 0414	DIODE 1SS352-(TPH3)
D7836	307 163 0414	DIODE 1SS352-(TPH3)
D7837	307 163 0414	DIODE 1SS352-(TPH3)
D7838	307 163 0414	DIODE 1SS352-(TPH3)
D7839	307 163 0414	DIODE 1SS352-(TPH3)
D7841	307 163 0414	DIODE 1SS352-(TPH3)
D7842	307 163 0414	DIODE 1SS352-(TPH3)
D8001	407 261 2119	ZENER DIODE 02DZ3.3Z(TPH3
D8161	307 205 5216	DIODE RB521S-30-TE61
D8162	307 205 5216	DIODE RB521S-30-TE61
D8163	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
D8801	307 163 0414	DIODE 1SS352-(TPH3)
D8821	307 224 6515	ZD UDZS4.7B-TE-17
D8831	307 224 6515	ZD UDZS4.7B-TE-17
MISCELLANEOUS		
IC301A	645 090 0655	CORE,FERRITE
K1001	945 078 7899	SOCKET,DVI 24P
K10B	645 089 7696	SOCKET,D-SUB 15P
K10C	945 086 7676	SOCKET,BNC 1P
K10D	645 067 7267	SOCKET,BNC 4P
SC1031	945 076 3503	SURGE-ABSORBER
SC1032	945 076 3503	SURGE-ABSORBER
SC1033	945 076 3503	SURGE-ABSORBER
SC1051	945 076 3503	SURGE-ABSORBER
SC1052	945 076 3503	SURGE-ABSORBER
SC1053	945 076 3503	SURGE-ABSORBER
SW6801	945 026 2792	SWITCH,PUSH 1P-1TX1
SW6802	945 026 2792	SWITCH,PUSH 1P-1TX1
SW6803	945 026 2792	SWITCH,PUSH 1P-1TX1
SW6804	945 026 2792	SWITCH,PUSH 1P-1TX1
SW6806	945 026 2792	SWITCH,PUSH 1P-1TX1
SW6807	945 026 2792	SWITCH,PUSH 1P-1TX1
SW6808	945 026 2792	SWITCH,PUSH 1P-1TX1
SW6809	945 026 2792	SWITCH,PUSH 1P-1TX1
SW6811	945 026 2792	SWITCH,PUSH 1P-1TX1
SW6812	945 026 2792	SWITCH,PUSH 1P-1TX1
SWRST	945 026 2792	SWITCH,PUSH 1P-1TX1
X101	945 041 3842	OSC,CRYSTAL 4MHZ
X1801	645 092 8857	OSC,CRYSTAL 48MHZ
X3241	945 076 5194	OSC,CRYSTAL 79.991883MHZ
X341	945 088 7179	OSC,CRYSTAL 27.0MHZ
X7261	945 076 5194	OSC,CRYSTAL 79.991883MHZ
XL3261	945 076 5019	FILTER,LP 34MHZ

610 335 3128 ASSY,PWB,A/V KP3AL

TRANSISTOR		
Q2001	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q2011	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q2021	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q2071	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB

Electrical Parts List

Key No.	Part No.	Description		
	305 015 8925	TR 2SC2812-L7-TB		
	305 163 1615	TR 2SC2812N-L6-TB0		
	305 173 9816	TR 2SC3928A1R		
	305 173 9915	TR 2SC3928A1S		
Q5031	305 014 4512	TR 2SC2412K T146 R		
	305 014 4611	TR 2SC2412K T146 S		
	305 015 8727	TR 2SC2812-L6-TB		
	305 015 8925	TR 2SC2812-L7-TB		
	305 163 1615	TR 2SC2812N-L6-TB0		
	305 173 9816	TR 2SC3928A1R		
	305 173 9915	TR 2SC3928A1S		
Q5032	305 014 4512	TR 2SC2412K T146 R		
	305 014 4611	TR 2SC2412K T146 S		
	305 015 8727	TR 2SC2812-L6-TB		
	305 015 8925	TR 2SC2812-L7-TB		
	305 163 1615	TR 2SC2812N-L6-TB0		
	305 173 9816	TR 2SC3928A1R		
	305 173 9915	TR 2SC3928A1S		
Q5041	305 014 4512	TR 2SC2412K T146 R		
	305 014 4611	TR 2SC2412K T146 S		
	305 015 8727	TR 2SC2812-L6-TB		
	305 015 8925	TR 2SC2812-L7-TB		
	305 163 1615	TR 2SC2812N-L6-TB0		
	305 173 9816	TR 2SC3928A1R		
	305 173 9915	TR 2SC3928A1S		
Q5042	305 014 4512	TR 2SC2412K T146 R		
	305 014 4611	TR 2SC2412K T146 S		
	305 015 8727	TR 2SC2812-L6-TB		
	305 015 8925	TR 2SC2812-L7-TB		
	305 163 1615	TR 2SC2812N-L6-TB0		
	305 173 9816	TR 2SC3928A1R		
	305 173 9915	TR 2SC3928A1S		
Q5046	305 014 4512	TR 2SC2412K T146 R		
	305 014 4611	TR 2SC2412K T146 S		
	305 015 8727	TR 2SC2812-L6-TB		
	305 015 8925	TR 2SC2812-L7-TB		
	305 163 1615	TR 2SC2812N-L6-TB0		
	305 173 9816	TR 2SC3928A1R		
	305 173 9915	TR 2SC3928A1S		
Q5047	305 014 4512	TR 2SC2412K T146 R		
	305 014 4611	TR 2SC2412K T146 S		
	305 015 8727	TR 2SC2812-L6-TB		
	305 015 8925	TR 2SC2812-L7-TB		
	305 163 1615	TR 2SC2812N-L6-TB0		
	305 173 9816	TR 2SC3928A1R		
	305 173 9915	TR 2SC3928A1S		
INTEGRATED CIRCUIT				
IC5001	309 564 1519	IC NJW1141M		
CAPACITOR				
C2001	303 358 3215	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C2002	303 367 0410	CERAMIC	0.1U K	50V
C2011	303 367 0410	CERAMIC	0.1U K	50V
C2012	303 367 0410	CERAMIC	0.1U K	50V
C2021	303 358 3215	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C2022	303 367 0410	CERAMIC	0.1U K	50V
C2031	303 367 0410	CERAMIC	0.1U K	50V
C2061	303 157 3614	CERAMIC	100P J	50V
C2062	303 157 3614	CERAMIC	100P J	50V
C2071	303 367 0410	CERAMIC	0.1U K	50V
C2072	303 372 7510	CERAMIC	2.2U K	6.3V
C2073	303 367 0410	CERAMIC	0.1U K	50V
C2077	303 157 3614	CERAMIC	100P J	50V
C2096	303 367 0410	CERAMIC	0.1U K	50V
C4051	303 157 6615	CERAMIC	470P K	50V
C4052	303 367 0410	CERAMIC	0.1U K	50V
C4053	303 398 4111	ELECT	47U M	16V
	303 387 6515	ELECT	47U M	16V
C4061	303 367 0410	CERAMIC	0.1U K	50V
C4092	303 367 0410	CERAMIC	0.1U K	50V
C5001	303 367 0410	CERAMIC	0.1U K	50V
C5002	303 367 0410	CERAMIC	0.1U K	50V
C5003	303 367 0410	CERAMIC	0.1U K	50V
C5004	303 215 2214	CERAMIC	0.01U K	50V
C5006	303 113 4112	CERAMIC	2200P K	50V
C5007	303 367 0410	CERAMIC	0.1U K	50V
C5008	303 358 8319	CERAMIC	1U K	10V
C5009	303 358 8319	CERAMIC	1U K	10V
C5011	303 367 0410	CERAMIC	0.1U K	50V
C5012	303 367 0410	CERAMIC	0.1U K	50V
C5013	303 367 0410	CERAMIC	0.1U K	50V
C5014	303 215 2214	CERAMIC	0.01U K	50V
C5016	303 113 4112	CERAMIC	2200P K	50V
C5017	303 367 0410	CERAMIC	0.1U K	50V
C5018	303 398 4111	ELECT	47U M	16V
	303 387 6515	ELECT	47U M	16V
C5021	303 374 4210	CERAMIC	0.33U K	10V
C5022	303 358 8319	CERAMIC	1U K	10V
C5023	303 358 8319	CERAMIC	1U K	10V
C5024	303 358 8319	CERAMIC	1U K	10V
C5026	303 367 0410	CERAMIC	0.1U K	50V
C5031	303 367 0410	CERAMIC	0.1U K	50V
C5032	303 367 0410	CERAMIC	0.1U K	50V
C5041	303 367 0410	CERAMIC	0.1U K	50V
C5042	303 397 6611	ELECT	10U M	25V
	303 387 6812	ELECT	10U M	25V
C5046	303 367 0410	CERAMIC	0.1U K	50V
C5047	303 397 6611	ELECT	10U M	25V
	303 387 6812	ELECT	10U M	25V
RESISTOR				
R2001	301 260 4115	MT-GLAZE	75 JA	1/3W
R2002	301 256 6314	MT-GLAZE	47K JA	1/10W
R2003	301 256 5317	MT-GLAZE	56K JA	1/10W
R2004	301 162 3612	MT-GLAZE	470 JA	1/10W
R2006	301 150 6212	MT-GLAZE	1K JA	1/10W
R2007	301 255 6513	MT-GLAZE	100 JA	1/10W
R2011	301 260 4115	MT-GLAZE	75 JA	1/3W
R2012	301 256 6314	MT-GLAZE	47K JA	1/10W
R2013	301 256 5317	MT-GLAZE	56K JA	1/10W
R2014	301 162 3612	MT-GLAZE	470 JA	1/10W
R2016	301 150 6212	MT-GLAZE	1K JA	1/10W
R2017	301 255 6513	MT-GLAZE	100 JA	1/10W
R2021	301 260 4115	MT-GLAZE	75 JA	1/3W
R2022	301 256 6314	MT-GLAZE	47K JA	1/10W
R2023	301 256 5317	MT-GLAZE	56K JA	1/10W
R2024	301 162 3612	MT-GLAZE	470 JA	1/10W
R2026	301 150 6212	MT-GLAZE	1K JA	1/10W
R2027	301 255 6513	MT-GLAZE	100 JA	1/10W
R2031	301 255 6513	MT-GLAZE	100 JA	1/10W
R2051	301 150 5819	MT-GLAZE	100K JA	1/10W
R2052	301 150 5819	MT-GLAZE	100K JA	1/10W
R2053	301 150 5819	MT-GLAZE	100K JA	1/10W
R2054	301 150 5819	MT-GLAZE	100K JA	1/10W
R2056	301 150 5819	MT-GLAZE	100K JA	1/10W
R2057	301 150 5819	MT-GLAZE	100K JA	1/10W
R2061	301 255 6513	MT-GLAZE	100 JA	1/10W
R2062	301 255 6513	MT-GLAZE	100 JA	1/10W
R2063	301 150 5819	MT-GLAZE	100K JA	1/10W
R2064	301 150 5819	MT-GLAZE	100K JA	1/10W
R2071	301 150 5819	MT-GLAZE	100K JA	1/10W
R2072	301 150 5819	MT-GLAZE	100K JA	1/10W

Electrical Parts List

Key No.	Part No.	Description		
R2073	301 255 6018	MT-GLAZE	1M JA	1/10W
R2074	301 162 3018	MT-GLAZE	22K JA	1/10W
R2076	301 255 6513	MT-GLAZE	100 JA	1/10W
R2077	301 162 2219	MT-GLAZE	10 JA	1/10W
R2091	301 150 5918	MT-GLAZE	10K JA	1/10W
R2092	301 255 6513	MT-GLAZE	100 JA	1/10W
R2093	301 255 6513	MT-GLAZE	100 JA	1/10W
R2096	301 255 6513	MT-GLAZE	100 JA	1/10W
R2097	301 150 5819	MT-GLAZE	100K JA	1/10W
R4001	301 264 9611	MT-GLAZE	36 FA	1/10W
R4002	301 264 9611	MT-GLAZE	36 FA	1/10W
R4003	301 264 9611	MT-GLAZE	36 FA	1/10W
R4004	301 265 4912	MT-GLAZE	75 FA	1/10W
R4006	301 265 4912	MT-GLAZE	75 FA	1/10W
R4007	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R4008	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R4009	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R4011	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R4012	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R4031	301 255 6513	MT-GLAZE	100 JA	1/10W
R4032	301 255 6513	MT-GLAZE	100 JA	1/10W
R4041	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R4042	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R4051	301 255 6513	MT-GLAZE	100 JA	1/10W
R4052	301 256 5614	MT-GLAZE	47 JA	1/10W
R4061	301 255 6513	MT-GLAZE	100 JA	1/10W
R4064	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R4066	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R4071	301 162 2219	MT-GLAZE	10 JA	1/10W
R4072	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R4073	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R5001	301 255 6513	MT-GLAZE	100 JA	1/10W
R5003	301 255 6513	MT-GLAZE	100 JA	1/10W
R5006	301 255 6513	MT-GLAZE	100 JA	1/10W
R5008	301 255 6513	MT-GLAZE	100 JA	1/10W
R5011	301 255 6513	MT-GLAZE	100 JA	1/10W
R5013	301 255 6513	MT-GLAZE	100 JA	1/10W
R5021	301 256 2910	MT-GLAZE	150 JA	1/10W
R5022	301 256 2910	MT-GLAZE	150 JA	1/10W
R5031	301 162 3612	MT-GLAZE	470 JA	1/10W
R5032	301 162 2417	MT-GLAZE	1.2K JA	1/10W
R5033	301 150 6212	MT-GLAZE	1K JA	1/10W
R5036	301 162 3612	MT-GLAZE	470 JA	1/10W
R5037	301 162 2417	MT-GLAZE	1.2K JA	1/10W
R5038	301 150 6212	MT-GLAZE	1K JA	1/10W
R5041	301 150 6212	MT-GLAZE	1K JA	1/10W
R5042	301 162 2417	MT-GLAZE	1.2K JA	1/10W
R5043	301 162 2417	MT-GLAZE	1.2K JA	1/10W
R5044	301 150 6212	MT-GLAZE	1K JA	1/10W
R5045	301 150 6212	MT-GLAZE	1K JA	1/10W
R5046	301 150 6212	MT-GLAZE	1K JA	1/10W
R5047	301 162 2417	MT-GLAZE	1.2K JA	1/10W
R5048	301 162 2417	MT-GLAZE	1.2K JA	1/10W
R5049	301 150 6212	MT-GLAZE	1K JA	1/10W
COIL				
L2001	945 086 7461	FILTER,EMI 100MHZ		
L2011	945 086 7461	FILTER,EMI 100MHZ		
L2021	945 086 7461	FILTER,EMI 100MHZ		
L2031	945 086 7461	FILTER,EMI 100MHZ		
L2051	945 086 7454	FILTER,EMI 50MHZ		
L2052	945 086 7454	FILTER,EMI 50MHZ		
L2053	945 086 7454	FILTER,EMI 50MHZ		
L2054	945 086 7454	FILTER,EMI 50MHZ		
L2056	945 086 7454	FILTER,EMI 50MHZ		
L2057	945 086 7454	FILTER,EMI 50MHZ		
L2061	945 086 7454	FILTER,EMI 50MHZ		

Key No.	Part No.	Description		
L2062	945 086 7454	FILTER,EMI 50MHZ		
L2091	945 086 7454	FILTER,EMI 50MHZ		
L2092	945 086 7454	FILTER,EMI 50MHZ		
L4001	945 086 7577	FILTER,EMI 400MHZ		
L4002	945 086 7577	FILTER,EMI 400MHZ		
L4003	945 086 7577	FILTER,EMI 400MHZ		
L4004	945 086 7577	FILTER,EMI 400MHZ		
L4006	945 086 7577	FILTER,EMI 400MHZ		
L4031	945 086 7454	FILTER,EMI 50MHZ		
L4032	945 086 7454	FILTER,EMI 50MHZ		
L4042	945 070 3660	INDUCTOR,90 OHM		
L4043	945 086 6037	IMPEDANCE,330 OHM P		
L4071	945 073 6408	IMPEDANCE,100 OHM -		
L4072	945 073 6408	IMPEDANCE,100 OHM -		
L4073	945 073 6408	IMPEDANCE,100 OHM -		
L4079	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
L4082	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
L4083	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
L4084	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
L4086	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
L4087	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
L4092	945 086 5368	IMPEDANCE,220 OHM P		
L5021	945 041 1978	INDUCTOR,330 OHM		
DIODE				
D2031	307 223 0514	ZENER DIODE 02DZ12Y(TPH3)		
	307 221 7119	ZENER DIODE UDZS-TE-1712B		
D2071	307 163 0414	DIODE 1SS352-(TPH3)		
D2091	307 223 7315	PC TLP421F(D4-GB-TP4)		
D2092	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3		
	307 209 1214	ZD UDZS-TE-176.2B		
D2093	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3		
	307 209 1214	ZD UDZS-TE-176.2B		
D2097	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3		
	307 209 1214	ZD UDZS-TE-176.2B		
D4041	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3		
	307 209 1214	ZD UDZS-TE-176.2B		
D5041	307 163 0414	DIODE 1SS352-(TPH3)		
D5046	307 163 0414	DIODE 1SS352-(TPH3)		
MISCELLANEOUS				
A4051	945 082 0466	UNIT,REMOCON RECEIVER		
K20A	945 067 6124	TERMINAL,BOARD		
K20B	945 076 2735	JACK,RCA-2		
K20C	945 076 2742	JACK,PHON D3.6		
K20D	945 076 2742	JACK,PHON D3.6		
K40A	645 089 7702	SOCKET,D-SUB 15P		
K40B	945 041 1077	SOCKET,DIN 8P		
K40C	645 095 2647	SOCKET,USB 4P		
K40D	945 087 1208	PLUG,D-SUB 25P		
SC2001	945 076 3503	SURGE-ABSORBER		
SC2011	945 076 3503	SURGE-ABSORBER		
SC2021	945 076 3503	SURGE-ABSORBER		
SC2051	945 076 3503	SURGE-ABSORBER		
SC2052	945 076 3503	SURGE-ABSORBER		
SC2053	945 076 3503	SURGE-ABSORBER		
SC2054	945 076 3503	SURGE-ABSORBER		
SC2056	945 076 3503	SURGE-ABSORBER		
SC2057	945 076 3503	SURGE-ABSORBER		
SC4031	945 076 3503	SURGE-ABSORBER		
SC4032	945 076 3503	SURGE-ABSORBER		
SC4041	945 076 3503	SURGE-ABSORBER		
SC4042	945 076 3503	SURGE-ABSORBER		
SC4061	945 076 3503	SURGE-ABSORBER		
SC4071	945 076 3503	SURGE-ABSORBER		
SC4072	945 076 3503	SURGE-ABSORBER		
SC4073	945 076 3503	SURGE-ABSORBER		
SC4074	945 076 3503	SURGE-ABSORBER		

Electrical Parts List

Key No.	Part No.	Description
SC4076	945 076 3503	SURGE-ABSORBER
SC4078	945 076 3503	SURGE-ABSORBER
SC4079	945 076 3503	SURGE-ABSORBER
SW4061	945 010 7659	SWITCH,PUSH 1P-1TX1

610 335 3166 ASSY,PWB,NETWORK JOINT KP3AL

TRANSISTOR

Q3031	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S

INTEGRATED CIRCUIT

IC3031	309 673 9819	IC PQ070XNA1ZPH
IC3041	309 673 9819	IC PQ070XNA1ZPH

CAPACITOR

C3031	303 358 8319	CERAMIC	1U K	10V
C3032	303 358 8319	CERAMIC	1U K	10V
C3033	303 358 3215	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C3041	303 358 8319	CERAMIC	1U K	10V
C3042	303 358 8319	CERAMIC	1U K	10V
C3043	303 358 3215	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V

RESISTOR

R3031	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R3032	301 150 5918	MT-GLAZE	10K JA	1/10W
R3033	301 264 1813	MT-GLAZE	1K FA	1/10W
R3034	301 255 9019	MT-GLAZE	82 JA	1/10W
R3036	301 264 4210	MT-GLAZE	1.6K FA	1/10W
R3037	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R3038	301 150 5918	MT-GLAZE	10K JA	1/10W
R3039	301 150 5918	MT-GLAZE	10K JA	1/10W
R3041	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R3042	301 150 5918	MT-GLAZE	10K JA	1/10W
R3043	301 264 1813	MT-GLAZE	1K FA	1/10W
R3044	301 256 6512	MT-GLAZE	68 JA	1/10W
R3046	301 264 8812	MT-GLAZE	3K FA	1/10W
R3047	301 037 5017	MT-GLAZE	0.000 ZA	1/10W

DIODE

D3031	307 205 5216	DIODE RB521S-30-TE61
D3041	307 163 0414	DIODE 1SS352-(TPH3)

610 335 3135 ASSY,PWB,R/C. FRONT KP3AL

CAPACITOR

C2821	303 398 4111	ELECT	47U M	16V
	303 387 6515	ELECT	47U M	16V
C2822	303 157 6615	CERAMIC	470P K	50V
C2823	303 358 8319	CERAMIC	1U K	10V

RESISTOR

R2821	301 256 5614	MT-GLAZE	47 JA	1/10W
R2822	301 162 2219	MT-GLAZE	10 JA	1/10W

MISCELLANEOUS

A2821	945 082 0466	UNIT,REMOCON RECEIVER

Key No.	Part No.	Description

PACKING MATERIALS

610 331 3030	SPACER LNS PACKING MZ7A
610 338 6362	CARTON CASE COM-KP3A FOR PLC-XT35
610 336 1383	CARTON CASE COM-KP3AL FOR PLC-XT35L
610 331 3016	CASE ACCESSORY-MZ7A
610 335 0479	CUSHION SPACER-MZ7A
610 331 2842	CUSHION FNT-MZ7A
645 096 4459	POLY BAG-0700X0600*NC*R8P

ACCESSORIES

OWNER'S MANUAL

610 336 1567	SETUP INST MANUAL-KP3A
610 336 1659	CD-ROM,OWNERS MANUAL-KP3A

REMOTE CONTROL

945 087 1468	ASSY,REMOCON CXTK
910 319 1820	RC-BATTERY LID-CXSP

⚠ AC CORD

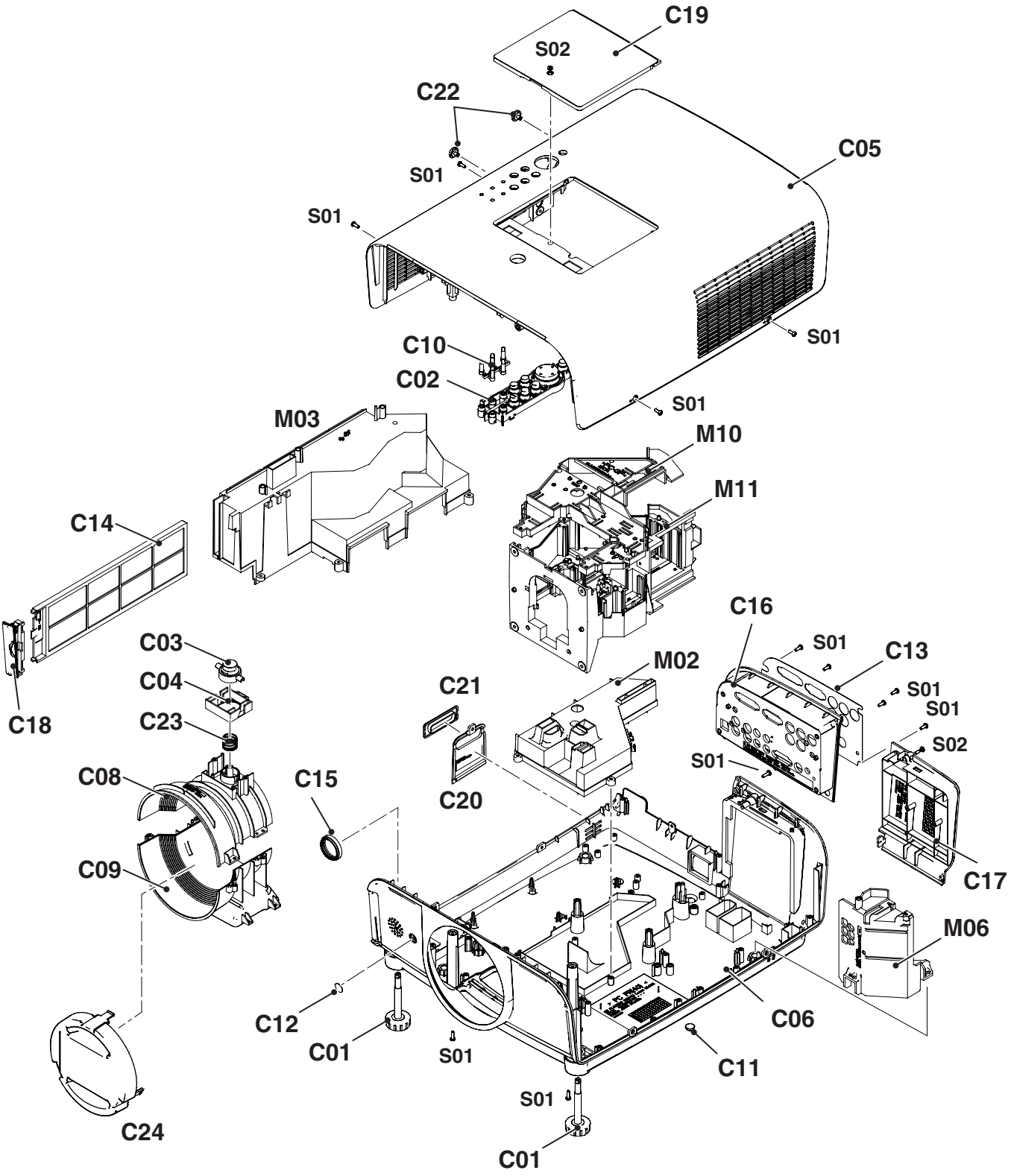
US	945 064 6363	CORD,POWER-3.0MK,US
EU	945 054 1156	CORD,POWER-3.0MK
UK	945 054 1149	CORD,POWER-3.138MK

MISCELLANEOUS

945 039 7210	CABLE,MOUSE SRAL
945 063 6937	CABLE,USB
945 063 6944	CABLE,USB
945 073 4855	CABLE,INTERFACE VGA
645 093 1642	CABLE,INTERFACE VGA

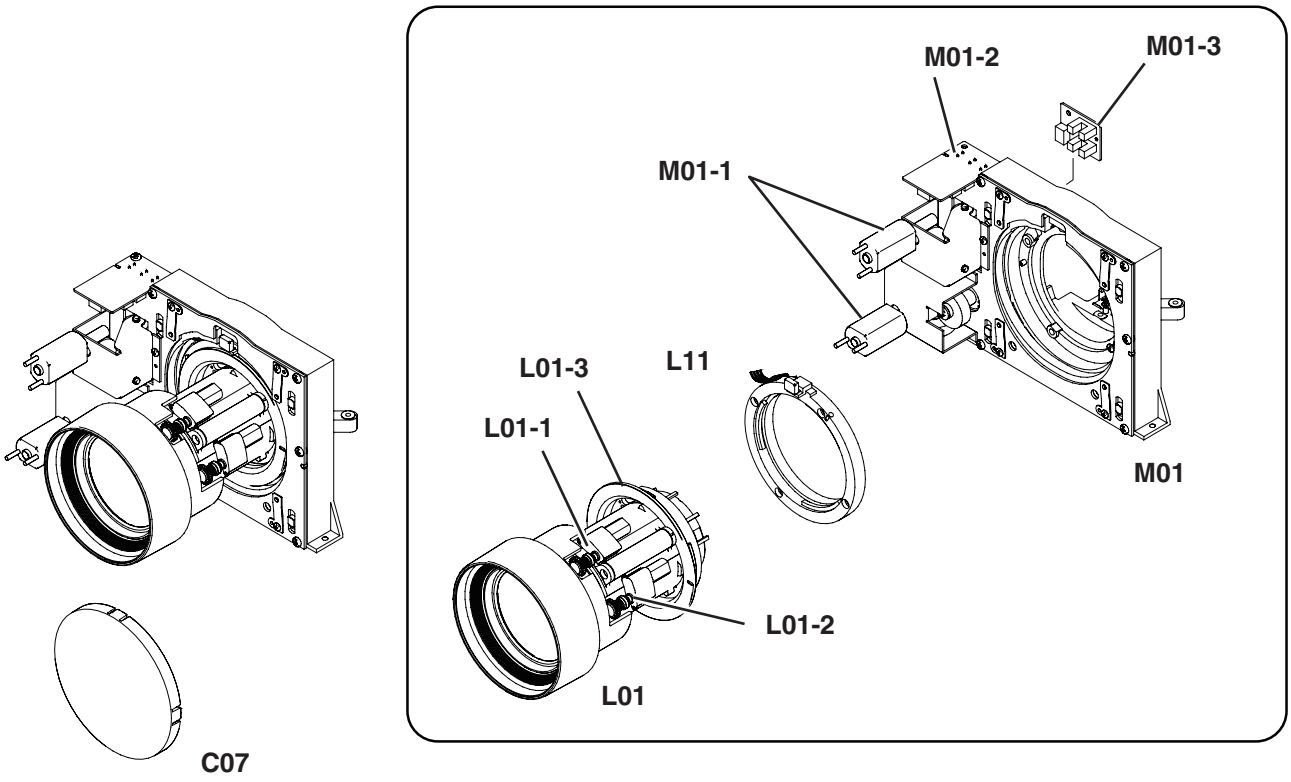
Mechanical Parts List

Cabinet Parts Location

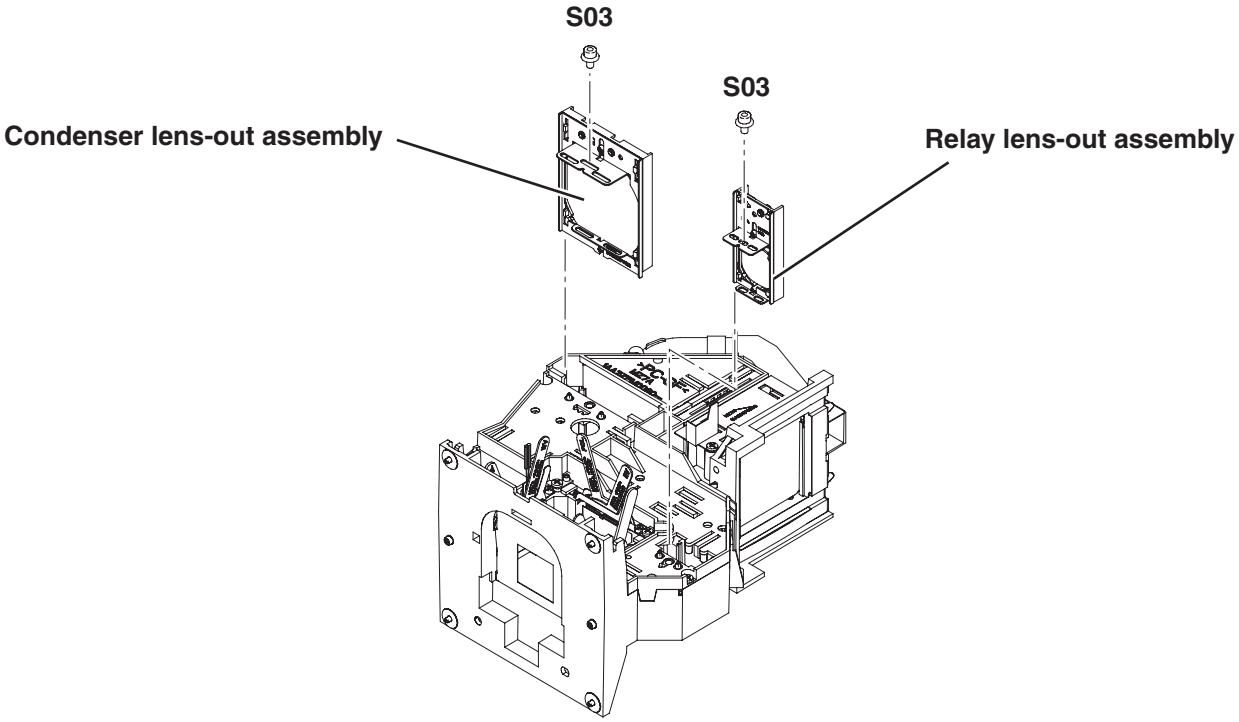


Mechanical Parts List

Optical engine_Lens shift assembly

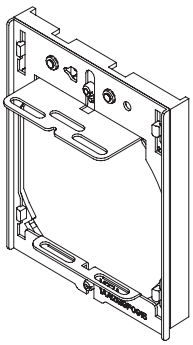


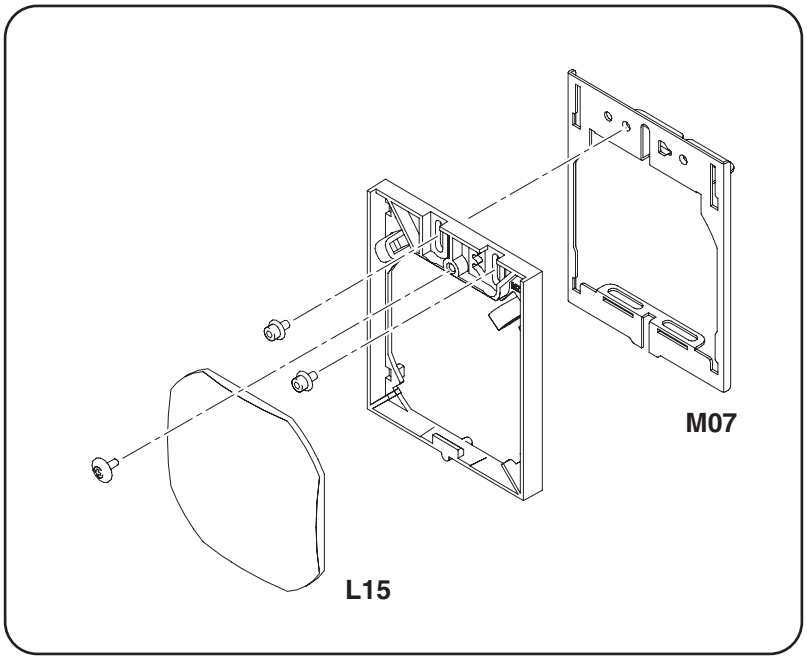
Optical engine_Lens assembly



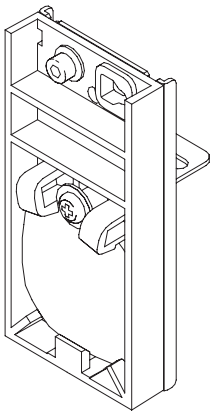
Mechanical Parts List

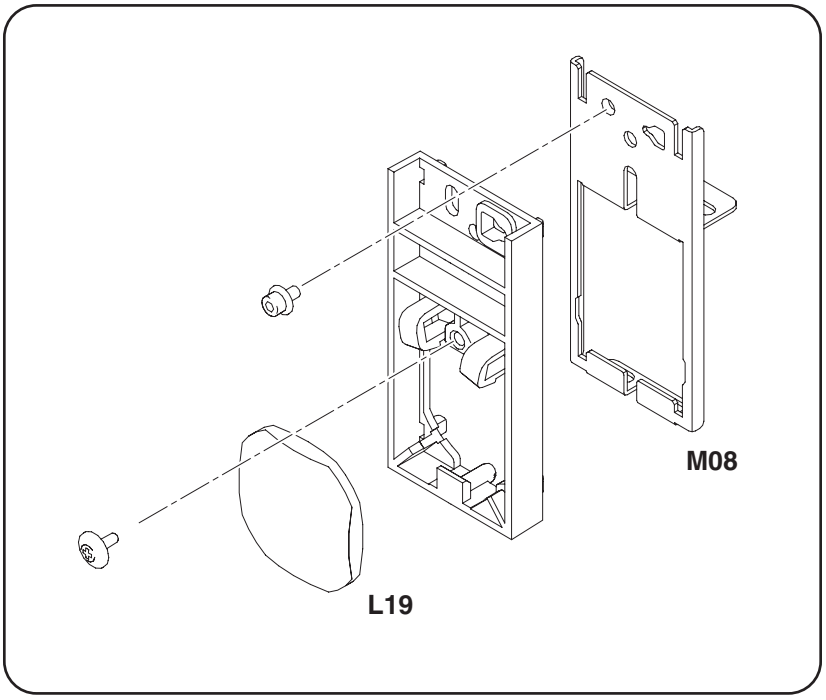
Condenser lens-out assembly



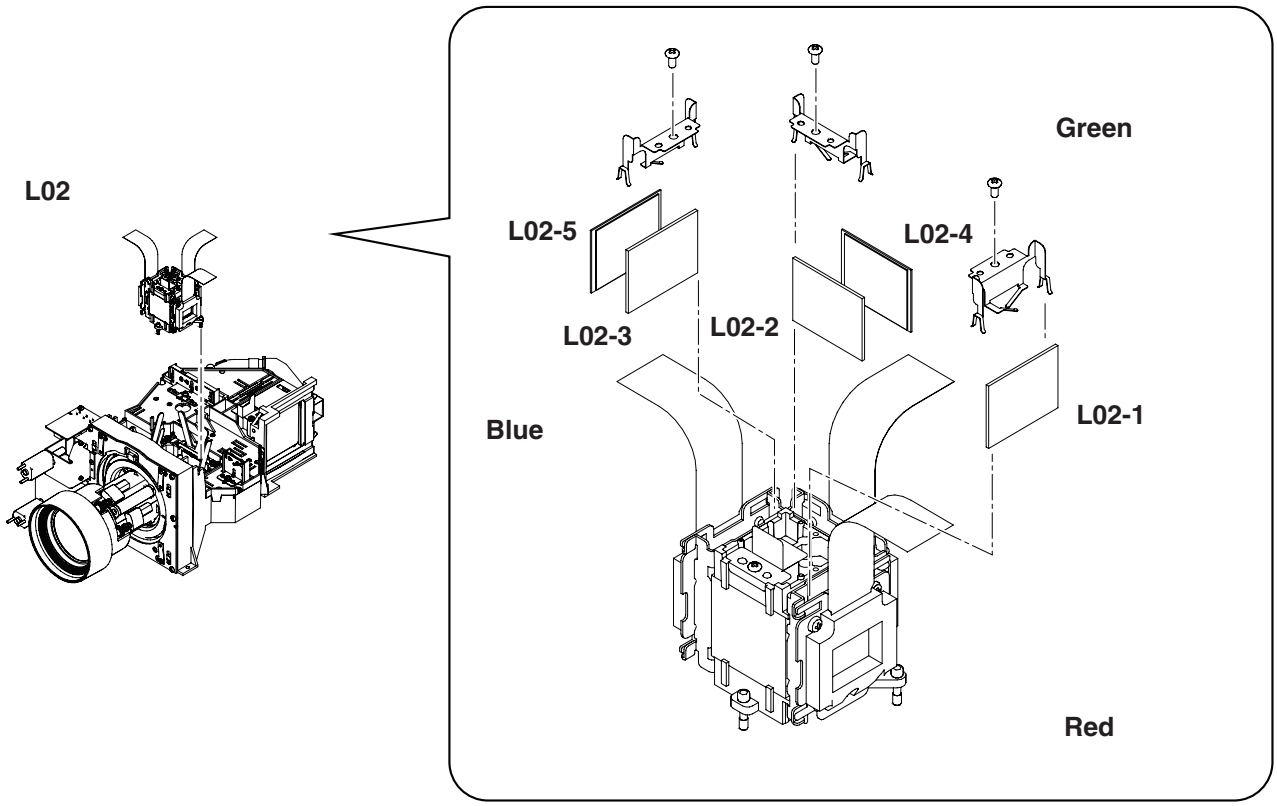


Relay lens-out assembly

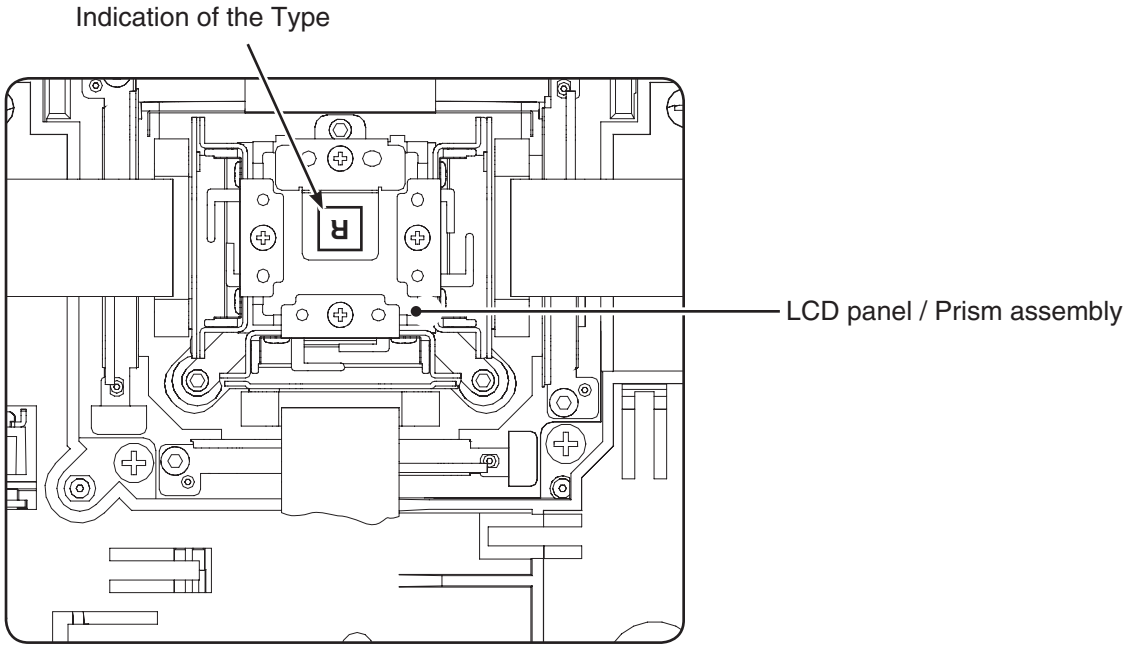




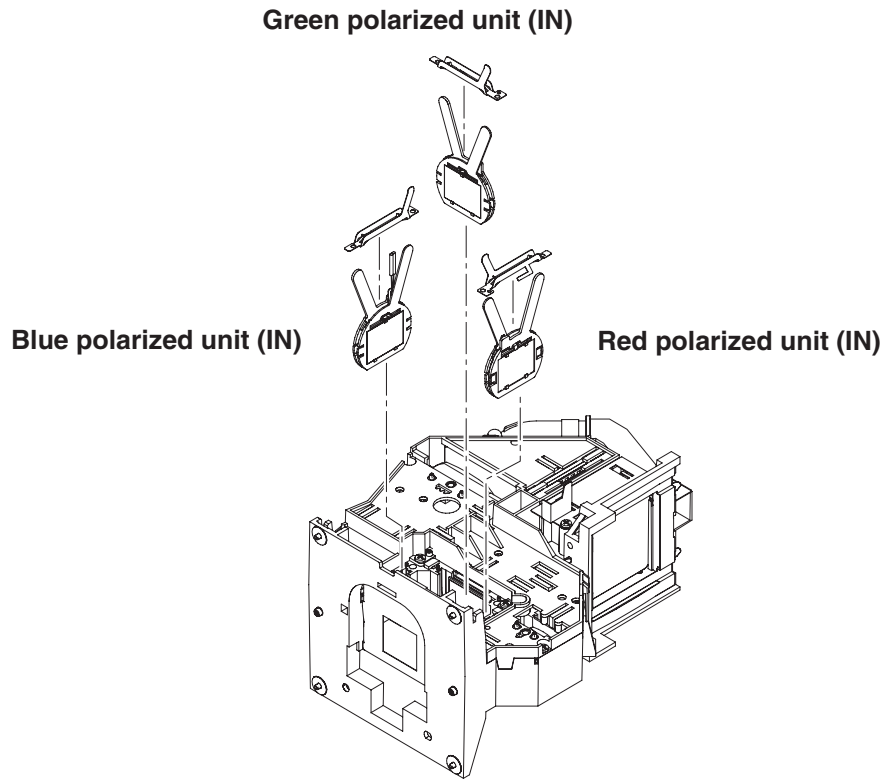
LCD panel / Prism assembly

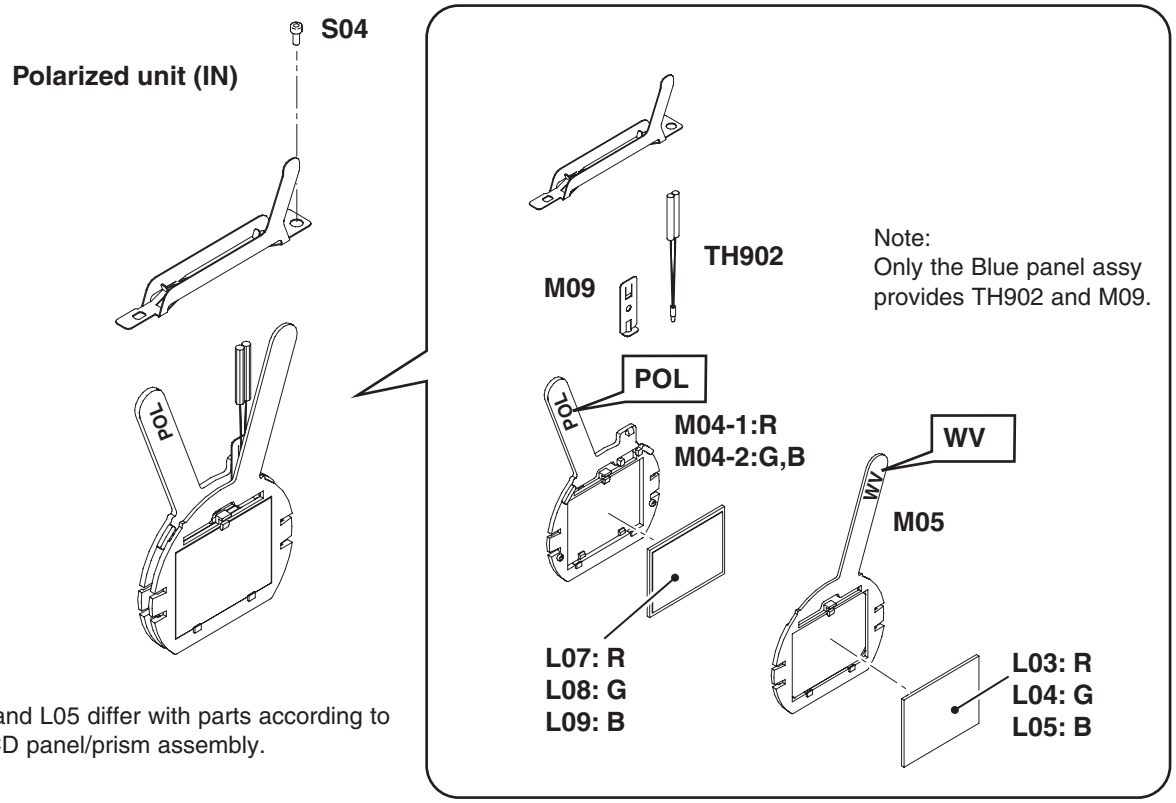


Note:
There are 2 types of LCD panel/prism assembly, named Type-R and Type-L. When replacing the LCD panel/prism assembly, replace them with the same type. The type indication label is attached on top of the LCD panel/prism assembly as shown in the below.



Mechanical Parts List

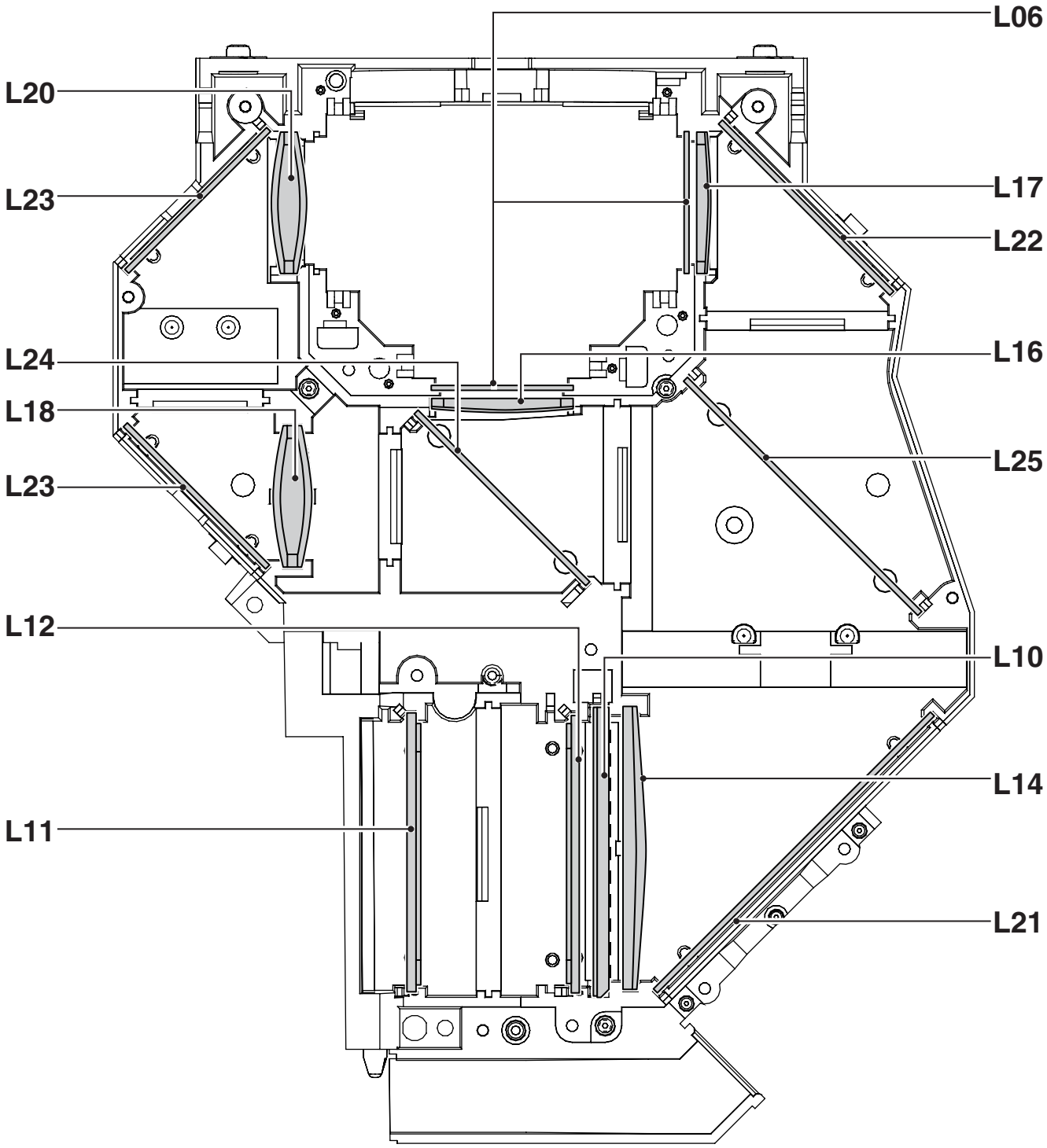




Note:
Only the Blue panel assy provides TH902 and M09.

Note:
L03, L04 and L05 differ with parts according to type of LCD panel/prism assembly.

In the Optical Unit



Mechanical Parts List

Note: Parts order must contain Chassis No., Part No., and Descriptions.

Key No.	Part No.	Description
CABINET PARTS		
C01	910 330 7566	ASSY,STAND LEG-MZ7A
C02	910 330 7269	BUTTON CTRL-MZ7A
C03	910 330 7559	BUTTON LNS A-MZ7A
C04	910 330 7535	BUTTON LNS B-MZ7A
C05	910 330 7306	CABINET TOP-MZ7A
C06	910 330 7245	CABINET BOTTOM-MZ7A
C07	610 338 3552	CAP LNS-KP3AL
C08	910 330 7238	COVER LNS TOP-MZ7A
C09	910 330 7399	COVER LNS BTM-MZ7A
C10	910 330 7573	DEC LED-MZ7A
C11	910 295 3085	DEC LEG-MW6A
C12	910 302 5613	DEC SHEET-M4JA
C13	910 330 7443	DEC AV SHEET-MZ7A
C14	910 330 7184	FILTER BASE-MZ7A
C15	910 323 6767	HOLDER SPEAKER-MT5A
C16	910 330 7191	PANEL AV-MZ7A
C17	910 330 7368	PANEL LMP-MZ7A
C18	910 330 7412	PANEL FILTER-MZ7A
C19	910 330 7405	PANEL PRM-MZ7A
C20	910 330 7542	PANEL PJNET-MZ7A
C21	910 297 7920	SPACER COVER NWMG-MA8AA
C22	910 297 7937	SPACER COVER SCREW NWMG-MA8AA
C23	910 330 7436	SPRING BUTTON LNS-MZ7A
C24	610 332 4005	COVER WITHOUT LNS-MZ7AL
CHASSIS PARTS		
M01	610 338 4917	COMPL,MOUNTING LNS-KP3AL
	(Including Key No. M01-1 to M01-3)	
M01-1	945 088 7681	ASSY,MOTOR LENS MZ7A
M01-2	645 089 4886	UNIT,LENS,SHIFT-X
M01-3	645 089 4893	UNIT,LENS,SHIFT-Y
M02	610 335 8369	COVER DUCT PANEL TOP-KP3AL
M03	910 330 8129	COVER DUCT PANEL IN-MZ7A
M04-1	910 330 8204	HOLDER POL IN-MZ7A
M04-2	610 335 7997	HOLDER POL IN-KP3AL
M05	910 330 7795	HOLDER WV IN-MZ7A
M06	610 338 2173	HOLDER CON BALLAST-KP3AL
M07	910 330 8075	MOUNTING LNS CON A-MZ7A
M08	910 330 7740	MOUNTING LNS REL A-MZ7A
M09	610 331 9070	STOPPER THERM POL IN-MZ7A
M10	910 330 8082	OPTICAL BASE TOP-MZ7A
M11	910 330 8310	OPTICAL BASE BTM-MZ7A
SCREWS		
S01	411 031 9304	SCR BIN 3X8
S02	312 069 7402	SPECIAL SCREW NI
S03	411 189 6507	BOLT HEX-SCT+SW+W 2.5X5
S04	411 189 6606	BOLT HEX-SCT 2.5X6
OPTICAL PARTS		
L01	645 093 9068	ASSY,LENS,PROJECTION
L01-1	645 093 9082	MOTOR,LENS(F-UNIT)
L01-2	645 093 9099	MOTOR,LENS(Z-UNIT)
L01-3	945 055 5351	LENS,PROJECTION-LM
Type-L LCD Panel/Prism Ass'y		
L02	610 336 1345	ASSY,LCD PNL/PRM RLR-KP3AL
	(Including Key No. L02-1 to L02-5 and LCD Panels)	
L02-1	645 093 9167	POLARIZED GLASS(OUT/R)
L02-2	645 093 9181	POLARIZED GLASS(OUT/G)
L02-3	645 093 9204	POLARIZED GLASS(OUT/B)
L02-4	645 093 9174	PREPOLARIZED GLASS(OUT/G)
L02-5	645 093 9198	PREPOLARIZED GLASS(OUT/B)

Key No.	Part No.	Description
Type-R LCD Panel/Prism Ass'y		
L02	610 336 1123	ASSY,LCD PNL/PRM LRL-KP3AL
	(Including Key No. L02-1 to L02-5 and LCD Panels)	
L02-1	645 093 9167	POLARIZED GLASS(OUT/R)
L02-2	645 093 9181	POLARIZED GLASS(OUT/G)
L02-3	645 093 9204	POLARIZED GLASS(OUT/B)
L02-4	645 093 9174	PREPOLARIZED GLASS(OUT/G)
L02-5	645 093 9198	PREPOLARIZED GLASS(OUT/B)
Parts for Type-L LCD Panel/Prism Ass'y		
L03	645 090 2680	OPTICAL FILTER (HCP)R
L04	645 094 2624	OPTICAL FILTER (HCP)L
L05	645 090 2680	OPTICAL FILTER (HCP)R
Parts for Type-R LCD Panel/Prism Ass'y		
L03	645 094 2624	OPTICAL FILTER (HCP)L
L04	645 090 2680	OPTICAL FILTER (HCP)R
L05	645 094 2624	OPTICAL FILTER (HCP)L
Common Parts		
L06	645 093 9129	POLARIZED GLASS(IN/GB)
L07	645 093 9150	POLARIZED GLASS(IN/R)
L08	645 093 9136	POLARIZED GLASS(IN/G)
L09	645 093 9143	POLARIZED GLASS(IN/B)
L10	945 088 7223	ASSY,PRISM(PBS)
L11	645 090 0600	LENS,PROJECTION-SM
L12	945 088 7254	LENS,INTEGRATOR(IN)
L13	945 088 7261	LENS,INTEGRATOR(OUT)
L14	645 094 6752	LENS,CONDENSER(IN)
L15	645 096 3926	LENS,CONDENSER(OUT)
L16	645 094 7117	LENS,CONDENSER(G)
L17	945 088 7346	LENS,CONDENSER(B)
L18	945 088 7353	LENS,RELAY(IN)
L19	945 088 7360	LENS,RELAY(OUT)
L20	945 088 7377	LENS,CONDENSER(R)
L21	945 088 7384	MIRROR(W-COLD)
L22	945 088 7391	MIRROR(B)
L23	945 088 7407	MIRROR(R)
L24	945 055 5405	DICHROIC MIRROR (G)
L25	645 094 7124	DICHROIC MIRROR (B)

* There are 2 types (Type-L or Type-R) of LCD Panel/Prism Ass'y. Used type is indicatyed on the Prism Ass's and Cabinet top. Refter to item "LCD Panel/Prism Ass'y Removal" for further information.

(KP3A) Nov. 2007 DC 350 Printed in Japan

SANYO Electric Co., Ltd.

Diagrams & Drawings

Schematic Diagrams
Printed Wiring Board Drawings

Model	Chassis No.
PLC-XT35	KP3-XT3500
PLC-XT35L	KP3-XT35L00

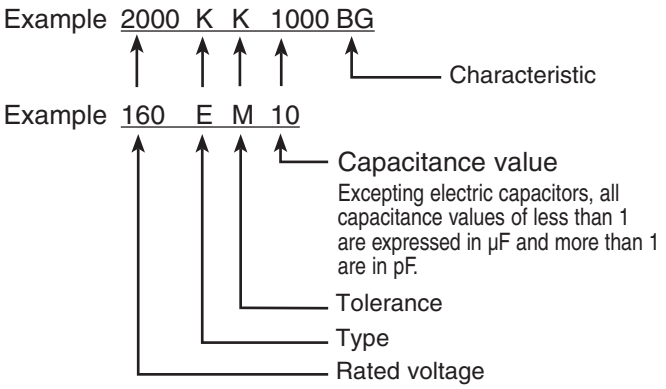
These schematic diagrams and printed wiring board drawings are part of the service manual original for chassis No. KP3-XT3500, KP3-XT35L00 models PLC-XT35, PLC-XT35L.
File with the service manual No. SM5110907-00

Note:
All the information of part numbers and values indicated on these diagrams are at the beginning of production. To improve the performance, there may be some differences to the actual set. When you order the service parts, use service parts code mentioned on the parts list in this service manual.

Parts description and reading in schematic diagram

1. The parts specification of resistors, capacitors and coils are expressed in designated code. Please check the parts description by the following code table.
2. Some of transistors and diodes are indicated in mark for the substitution of parts name. Please check the parts name by the following code table.
3. Voltages and waveforms were taken with a video color bar signal (1Vp-p at 75 ohms terminated) and controls to normal.
4. Voltages were taken with a high-impedance digital voltmeter.

Capacitor Reading


Example 2000 K K 1000 BG
Characteristic
Example 160 E M 10
Capacitance value
Excepting electric capacitors, all capacitance values of less than 1 are expressed in µF and more than 1 are in pF.
Tolerance
Type
Rated voltage

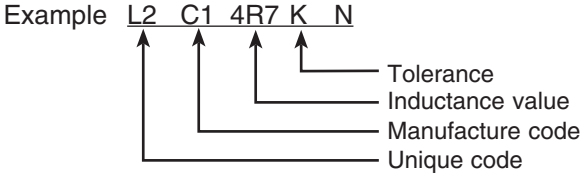
● **Material table**

Mark	Material
E	Electrolytic
P	Electrolytic (non-polarized)
C	Ceramic (temperature compensation)
K	Ceramic
F	Polyester
N	Polypropylene
M	Metalized polypropylene
H	Metalized polypromylar
B	Ceramic (semiconductor)
G	Metalized polyestel
Y	Composite film
S	Styrol
T	Tantalum oxide solid electrolytic
U	Organic semiconductive electrolyte
D	Electric double layer electrolytic

● **Tolerance table**

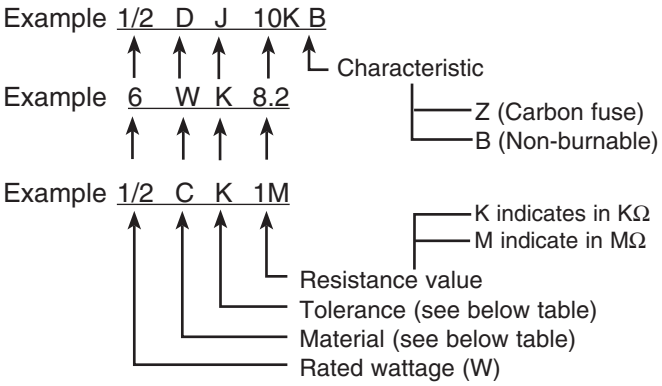
Mark	Tolerance	
A	not specified	
B	±0.1	
C	±0.25	
D	±0.5	
F	±1	
G	±2	
E	±2.5	
H	±3	
J	±5	
K	±10	
M	±20	
N	±30	
P	+100	-0
Q	+30	-10
T	+50	-10
U	+75	-10
V	+20	-10
W	+100	-10
X	+40	-20
Y	+150	-10
Z	+80	-20

Coil Reading



Mark	Tolerance (nH)	Mark	Tolerance (%)
C	±0.25	G	±2
D	±0.5	J	±5
S	±0.3	K	±10
A	±0.2	L	±15
		M	±20

Resistor Reading



Note: Resistor which is indicated with resistance value only are 1/6W carbon resistor. Resistor which is indicated with material, tolerance and value are 1/4W rated wattage.

● **Material table**

Mark	Material
D	Carbon
N	Metal film
S	Oxide metal film
C	Solid
G	Metal glaze
W	Wire wounding or cement
H	Ceramic
F	Fusible

● **Tolerance table**

Mark	Tolerance
A	±0.05
B	±0.1
C	±0.25
D	±0.5
F	±1
G	±2
J	±5
K	±10
M	±20
P	+5 -15
Z	used in 0 ohm

Diode/Transistor Type Reading

● **Diode**

Mark	Type number
R	1S2076A,1S2473,1N4148
AA	1S2076A,1S2473,1SS133,1N4148

● **Transistor**

(1) NPN type

Mark	Type number				
--	2SC536	2SC945A	2SC1815	2SC1740S	
AD	NF, NG	PA, QA	Y, GR	Q, R, S	
AE	NF, NG	PA, QA, RA	O, Y, GR	Q, R, S	

(2) PNP type

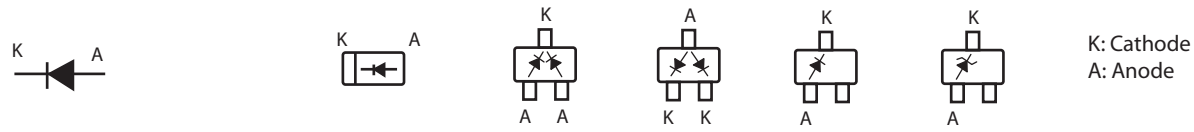
Mark	Type number				
--	2SA608	2SA564A	2SA1015	2SA933S	
AB	NF	R	Y, GR	R	
AC	NF	Q, R	O, Y, GR	Q, R	

(3) Chip type

Mark	Type number				
--	2SA1179N	2SA1037K	2SA1037AK	2SC2812/N	2SC2412K
AJ	M6, M7	R, S	R, S		
AH				L6, L7	R, S

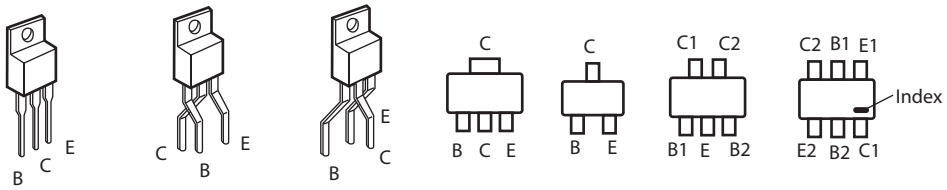
Pin description of diode, transistor and IC

● Diode



K: Cathode
A: Anode

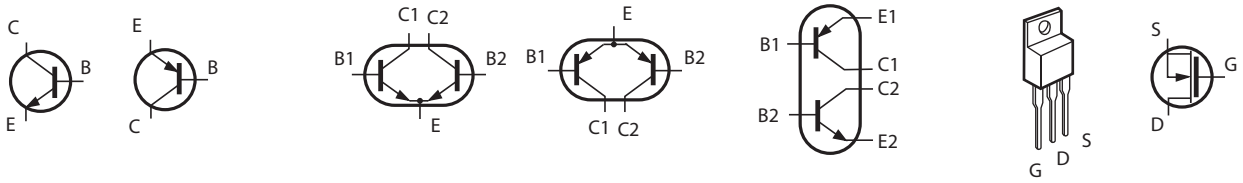
● Transistor/FET



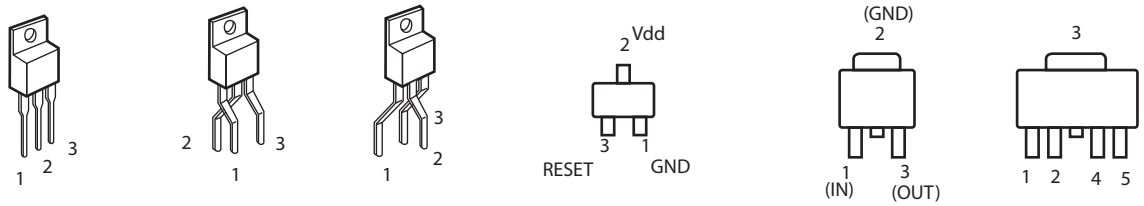
C: Collector
B: Base
E: Emitter

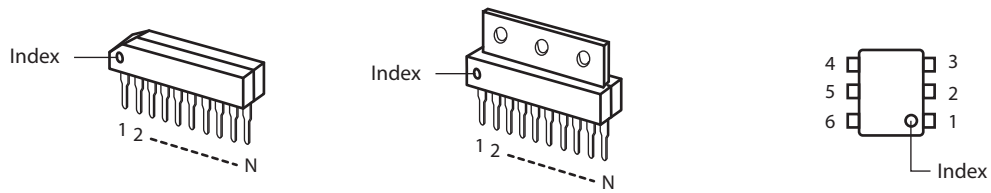
D: Drain
G: Gate
S: Source

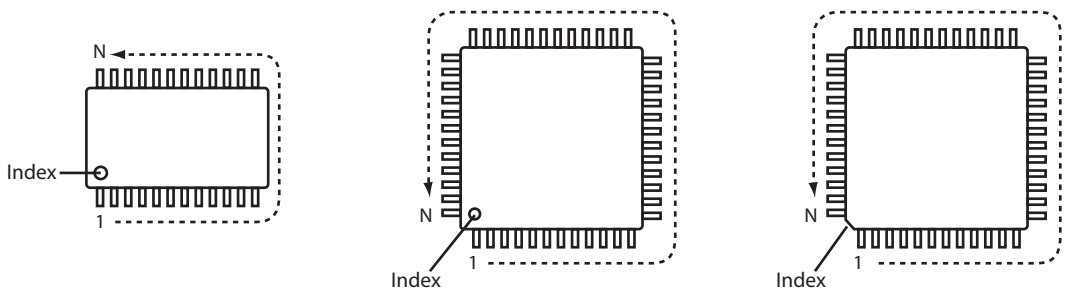
FET

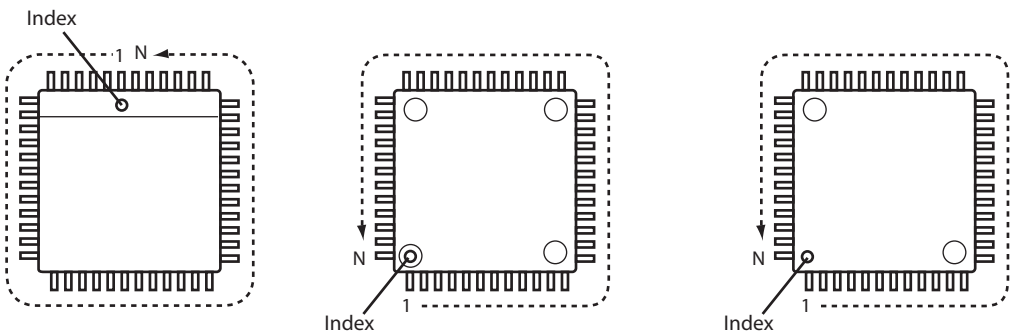


● IC









Note on Soldering

Do not use solder containing lead.

This product has been manufactured using lead-free solder in order to help preserve the environment.

Because of this, be sure to use lead-free solder when carrying out repair work, and never use solder containing lead.

Lead-free solder has a melting point that is 30–40 °C (86–104 °F) higher than solder containing lead, and moreover it does not contain lead which attaches easily to other metals. As a result, it does not melt as easily as solder containing lead, and soldering will be more difficult even if the temperature of the soldering iron is increased.

The extra difficulty in soldering means that soldering time will increase and damage to the components or the circuit board may easily occur.

Because of this, you should use a soldering iron and solder that satisfy the following conditions when carrying out repair work. Also, soldering work must be done in a short time.

Soldering iron

Use a soldering iron which is 70 W or equivalent, and which lets you adjust the tip temperature up to 450 °C (842 °F) It should also have as good temperature recovery characteristics as possible.

Solder

Use solder with the metal content and composition ratio by weight given in the table below. Do not use solders which do not meet these conditions.

Metal content	Tin (Sn)	Silver (Ag)	Copper (Cu)
Composition ratio by weight	96.5 %	3.0 %	0.5 %

Note:

If replacing existing solder containing lead with lead-free solder in the soldered parts of products that have been manufactured up until now, remove all of the existing solder at those parts before applying the lead-free solder.

Schematic Diagrams

AC CORD

K6A

FRAME GND BRACKET

A904

POWER (FILTER)

K6B 1 3

SW901A 81L03K2R2

SW901 S40B0120N

(SET TO OPEN AT 100+/-3°C)

SW901B 81L03K2R2

K6C 1 3

Z6B&6C 1AA9W03BC014-

K6D

K7A

Z6D&7A 1AA9W03BC015-

A902

POWER (AC)

HOT

COLD

CAUTION
Fuse of the specified parts number must be used.
Unauthorized substitutions may result in fire or accident.

CN6A

CN66A

A903

POWER (DC)

K66A J10XC500G

K8A J10XC500G

Z8G&8F 1AA9W03BE002

GND 1 / 5V_NET1 2 / 5V-NET1 3 / GND 4 / S-5V 5 / GND 6 / GND 7 / S18V 8 / GND 9 / 33.3V 10 / GND 11 / S8VPW 12 / GND 13 / S8VG 14 / S8V1 15 / GND 16 / LAMP_DC_ON 17 / NET_SW 18 / 15V_SW 19 / GND 20 / 8V_LNS 21 / GND 22 / 15V_LNS 23 / GND 24 / 15V_PNL 25 / 48 / 50

K66J S10B-ZR-SM4A-TF(LF)(SN)

GND 1 / FAN_DAC1 2 / FAN_DAC2 3 / FAN_DAC3 4 / FAN_MWM5 / FAN_SPEED_1 6 / FAN_SPEED_2 7 / FAN_SPEED_3 8 / FAN_SPEED_4 9 / FAN_SPEED_5 10 / FAN_SW_1 11 / FAN_SW_2 12 / GND 13

Z8J&8J 1AA9W03AF38GZ

K8J J10EG135G

1 GND / 2 FAN_DAC1 / 3 FAN_DAC2 / 4 FAN_DAC3 / 5 FAN_PWM / 6 FAN_SPEED_1 / 7 FAN_SPEED_2 / 8 FAN_SPEED_3 / 9 FAN_SPEED_4 / 10 FAN_SPEED_5 / 11 FAN_SW_1 / 12 FAN_SW_2 / 13 GND

K66D S4B-ZR-SM4A-TF(LF)(SN) 1 2 3 4

FN901 M10B41200 (FAN1) 92X92X25 120MM 1.92W

EXHAUST FAN FOR LAMP

K66E S3B-ZR-SM4A-TF(LF)(SN) 1 2 3

FN902 M10B41300 (FAN2) 92X92X25 70MM 3.36W

EXHAUST FAN FOR POWER

K66F S4B-ZR-SM4A-TF(LF)(SN) 1 2 3 4

FN903 M10B43600 (FAN3) 60X60X18 47MM 1.92W

INTAKE FAN FOR LAMP

K66G S4B-PH-SM4-TB(LF)(SN) 1 2 3

FN904 M10B43700 (FAN4) 97.1X95.0X33.0 90MM 4.24W

K66H S5B-ZR-SM4A-TF(LF)(SN) 1 2 3 4 5

FN905 M10B43701 (FAN5) 97.1X95.0X33.0 90MM 6.24W

INTAKE FAN FOR PANEL

Z9G&8D 1AA9W04AF40GZ

LAMP BALLAST

A901

K7B RX 1 / SW 2 / 5V 3 / GND 4 / TX 5

Z7B&8M 1AA9W008F003G

K8N J10EZ051G RXD 1 / LAMP_SW 2 / 5V 3 / GND 4 / TXD 5

SW902 S10BT860N

SW902A SW902A1 J11EF030N J30B0150N

SW902A1 J30B0150N

K8P J10EP031G 1 2 3

NTB FILTER 1AA9W03B50000

LP901

R/C FRONT

GND / OUT / VCC

A2821 U20B98500

R2821 1/10Ω,J47C

R2821 1/10Ω,J10C

C2821 16EM473T

C2826 RX470QQ

C2823 10KX7GQ

D2821 X

D2822 X

5VPW

K28A J10EG035G

K28J / K28K / K28L

K2G J10EG035G 1 GND / 2 VCC / 3 OUT

Z28A&8G 1AA9AYAF240Z

K8H J10EP031G 1 SP+ / 2 / 3 SP-

SP901 A10B38900

Z8H&SP 1AA9W03BG006P

LENS SENSOR

CN-B

CN-C1

CN-C2

CN-A

TOP LIMIT

BOTTOM LIMIT

K9C

LENS SHIFT UP/DOWN

LENS SHIFT LEFT/RIGHT

PROJECTION LENS

FOCUS

ZOOM

ZCNA&8K 1AA9CAYAF200Z

K8K J10EC125G

K8L J10EP041G

MAIN

K35R J11EA364G

R LCD PANEL

K35Q J11EA364G

G LCD PANEL

K35B J11EA364G

B LCD PANEL

K8E J10EG045G

K8F J10ES056G

TH901 S10B7610N THERMISTOR1 (ROOM TEMP.)

TH902 S10B7600N THERMISTOR2 (BLUE PANEL TEMP.)

CAUTION

Components indicated by a mark ⚠ in this schematic diagram have the special significance in the safety. It is therefore, particularly recommended that the replacement of those parts must be made by exactly the same parts. Must be used with a specified fuse. Unauthorized substitutions may result in fire or accident.
This projector is isolated from AC line by using the internal converter transformer. Please pay attention to the following notes in servicing.
1. Do not touch the part on hot side (primary circuit) or both parts on the hot and cold sides (secondary circuit) at the same time.
2. Do not shorten the circuit between hot and cold sides.
3. The grounding lead must be connected to the ground of the same circuit when measuring the voltages and waveform.

K8S J11CYC00G

K30B J10RLC00G

K30A J10RLC00G

K40E J11CYC00G

A/V

NETWORK JOINT

K40D J10B2530N

NETWORK BOARD

KP3AL-01a

SCH_KP3A

A3

INPUT 3
VIDEO
S-VIDEO
AUDIO IN
L
AUDIO 3 IN
R
AUDIO 1 IN
AUDIO OUT
AUDIO 2 IN
R/C
ANALOG OUT
SERVICE PORT SERIAL
USB PORT
WIRELESS R/C
RESET
NETWORK BOARD
AUDIO-SW
IC5001 NJW1141M
IC3031 PQ070XNA1ZPH
IC3041 PQ070XNA1ZPH
MAIN "K8S"
NETWORK JOINT
A/V
SCREW201
SCREW202
SCREW203
SCREW_10
SCREW301
SCREW302
SCREW303
SCREW304
SCREW305
SCREW306
SCREW307
SCREW308
AUDIO-IN3_L
AUDIO-IN3_R
AUDIO-IN1_R
AUDIO-IN1_L
AUDIO-IN2_R
AUDIO-IN2_L
AUDIO-OUT_L
AUDIO-OUT_R
AUDIO
SCL0_5SV
SDA0_5SV
MUTE
(MUTE: HIGH)
VIDEO
S_C
S_Y
S_SW
TXD
RXD
USB_VBUS
USB_D-
USB_D+
R/C_REAR
CPU_RESET
OUT_VS
OUT_HS
OUT_BLUE
OUT_GREAN
OUT_RED
LVDS3-
LVDS3+
LVDS2-
LVDS2+
LVDS1-
LVDS1+
LVDS0-
LVDS0+
LVDSC-
LVDSC+
PJ_UPDATE
NET_H/L
M_TXD
BOX_SW
PJ_I/O_UART
I/O_PJ_UART
P-FAIL_PJ
NET_SW
AUDIO-OUT_DET
W_R/C
W_R/C_SW
3.3V1_NET
5V_NET
5V_EXT
5V_AUDIO
5SV1
3.3V_NET

INPUT 1

DIGITAL (DVI-D)

DVI-D Pin Assign(SingleLink)
1.TMDS2- 9.TMDS1- 17.TMDS0-
2.TMDS2+ 10.TMDS1+ 18.TMDS0+
3.GND(TMDS2) 11.GND(TMDS1) 19.GND(TMDS0)
4.NC(TMDS4) 12.NC(TMDS3) 20.NC(TMDS5)
5.NC(TMDS4+) 13.NC(TMDS3+) 21.NC(TMDS5+)
6.DDC_SCL 14.+5V 22.TMDSC-
7.DDC_DATA 15.GND 23.TMDSC+
8.NC(VS) 16.HPD 24.TMDSC+

DDR-SW

IC8131 TC7W53FU

IC8141 TC7W53FU

IC8101 24C02CT-I

IC8121 TC7WBD125AFK

BUS-SW

DVI HDCP MEMORY

	DDC_SW1
EEPROM-DVI_D	L
EEPROM-PW190	H

	HDCP_IC_SW
DVI DIGITAL	L
HDCP	H

DVI INTERFACE

IC8001 SII17169CTU

NETWORK JOINT "K30B"

FPGA

IC7201 XC3S50

IC301 SCAN CONVERTER

IC7281 PQ070XNB1ZPH

IC7291 PQ070XNB1ZPH

INPUT 2

H-SYNC
C-SYNC
V-SYNC
B Cb/Pb
R Cr/Pr
G Y CV

PC1/PC2-SW

IC5201 THS7347IPHPR

INPUT 1

RGB SCART

VGA HDCP MEMORY

IC1081 24LC21AT

IC1061 TC74LVX4053FT

DDC-SW

	DDC_SW2
EEPROM-DSUB	L
EEPROM-PW190	H

	SCART_SW
SCART	H
THE OTHERS	L

SYNC-SEP.

IC5301 AD8057ARTZ

IC5281 TC7W53FU

IC5321 BA7078AF

IC5341 TC7SZ04FU

IC5351 TC7SZ04FU

MAIN-1

VIDEO SW & SYNC

IC101
CXA2229Q

DIGITAL VIDEO DECODER

IC3101
CXD3815Q

IC301 SCAN CONVERTER

SRAM

IC4101
EDS6416AHTA

IC191
PQ070XNB1ZPH

IC4131
PQ070XNB1ZPH

IC4151
PQ070XNB1ZPH

IC4141
PQ1LAX95MSPQ

IC4161
PQ1LAX95MSPQ

MAIN-2

IC3101
DIGITAL
VIDEO
DECODER

IC7201
FPGA

IC301 PW190

SCAN CONVERTER
&
SYSTEM CONTROL

IC1391
24LC64T-I

CONTROL
MEMORY

IC2811
74LVC1G125GW

IC2801
TC7WT240FU

IC861
TC74LCX541FT

BUFFER

FLASH
MEMORY

IC801
S29GL064A90TFIR30

I/O
EXPANDER

IC1801
TE7783PF
;TE7783APF

IC1881
TC74LCX541FT

BUFFER

IC3801
HIN202EIBNZ

RS-232C
DRIVER

IC5601
PQ070XNB1ZPH

IC5691
PQ1LAX95MSPQ

IC5621
PQ1LAX95MSPQ

IC1821
PQ1LAX95MSPQ

IC391
TC7SZ14FU

IC1301
PST413A300NR

IC5641
FA7701V

MAIN-3

POWER (DC) "K66A"

POWER (DC) "K66J"

IC7201 FPGA

IC561 R-S&H

IC301 SCAN CONVERTER

IC531 G-S&H

IC501 B-S&H

IC401 L3E07111K0A

LCD-DRIVER DIGITAL GAMMA CORRECTION

INVERTER

LED

KEY SWITCH

IC8801 PQ1LAX95MSPQ

IC8841 MCP9801T

TEMP. SENSOR

IC5101 PQ20WZ11

IC5111 PQ070XNB1ZPH

THERMISTOR1 TH901

THERMISTOR2 TH902

R/C FRONT "K28A"

SPEAKER

IC5121 LM4889MM

AUDIO OUTPUT

LENS SHIFT MOTOR UP/DOWN-DRIVER

IC6501 TC7W53FU

IC6531 BA6920FP

IC6541 TC7W53FU

LENS SHIFT MOTOR LEFT/RIGHT-DRIVER

IC6561 BA9620FP

LENS SENSOR

ZOOM FOCUS MOTOR

IC5361 HD74LVC14T

IC5501 BA6287F

FOCUS MOTER DRIVE

IC5551 BA6287F

ZOOM MOTER DRIVE

LAMP BALLAST "CJ2"

IC4801 TC74ACT14FT

SW902

MAIN-4

IC1401 PQ070XNB1ZPH

IC1411 PQ015Y201ZPH

IC402 TC7SZ125FU

IC7821 HD74LVC14T

IC6501 TC7W53FU

IC4891 PQ1LAX95MSPQ

IC401

IC501
L3E06150S2A
B-S&H

IC2501
L3E01060P0B
B-LEVEL SHIFT

B-LCD PANEL

IC401

IC531
L3E06150S2A
G-S&H

IC2531
L3E01060P0B
G-LEVEL SHIFT

G-LCD PANEL

IC401

IC561
L3E06150S2A
R-S&H

IC2561
L3E01060P0B
R-LEVEL SHIFT

R-LCD PANEL

MAIN-5

KP3AL-07a

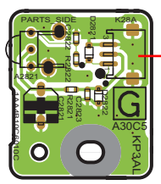
SCH_KP3A

A9

NO DATA

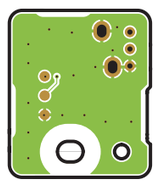
Printed Wiring Board Diagrams

R/C FRONT (SIDE:A)



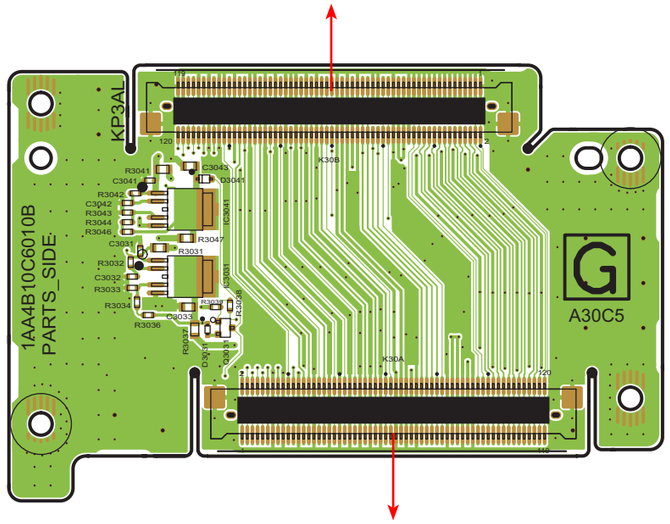
MAIN
“K8G”

R/C FRONT (SIDE:B)



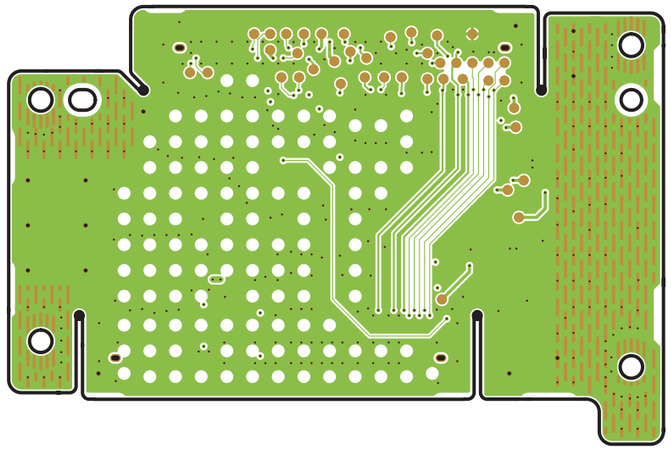
NETWORK JOINT (SIDE:A)

MAIN “K8S”



A/V “K40E”

NETWORK JOINT (SIDE:B)



⚠ CAUTION

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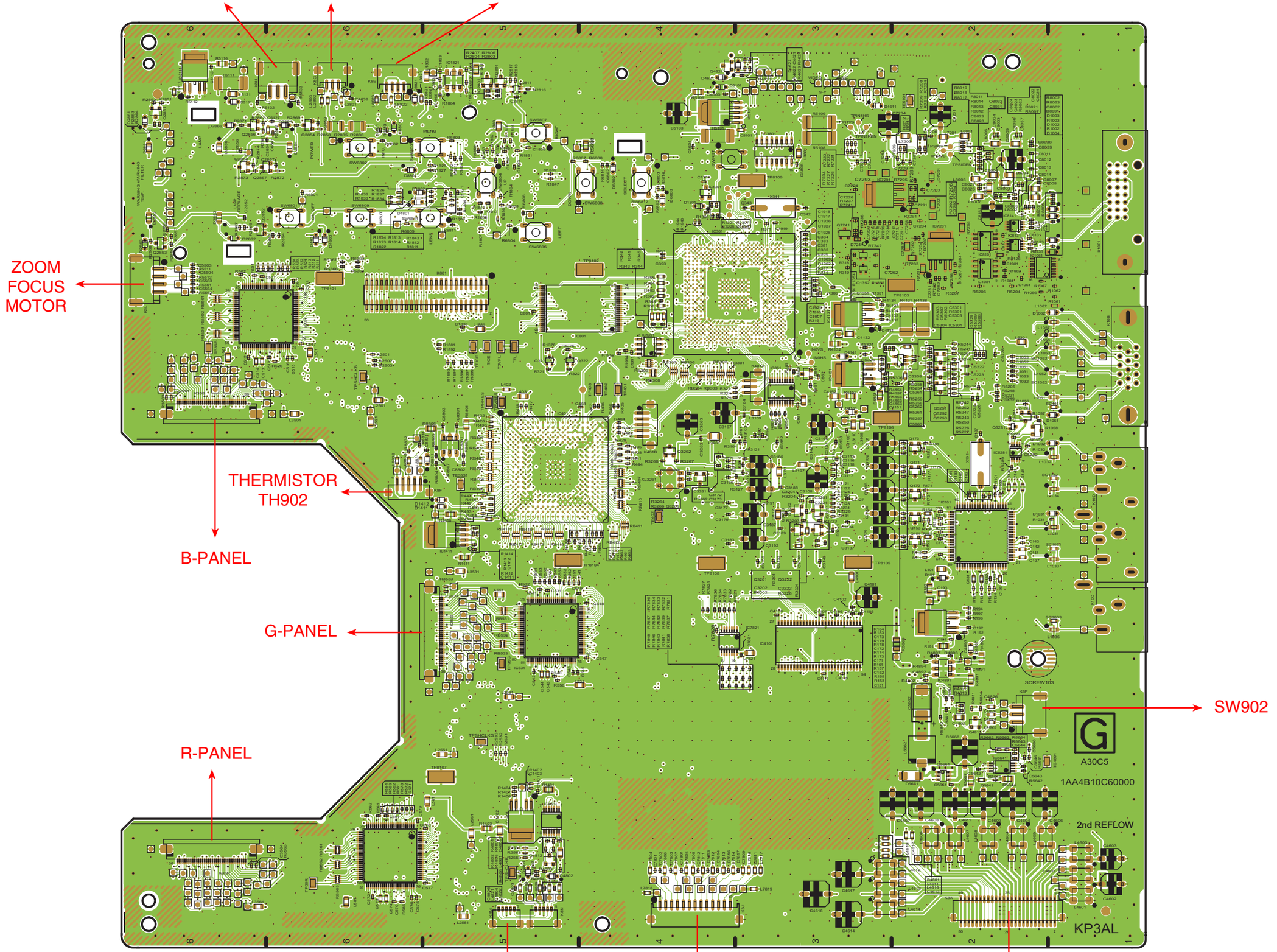
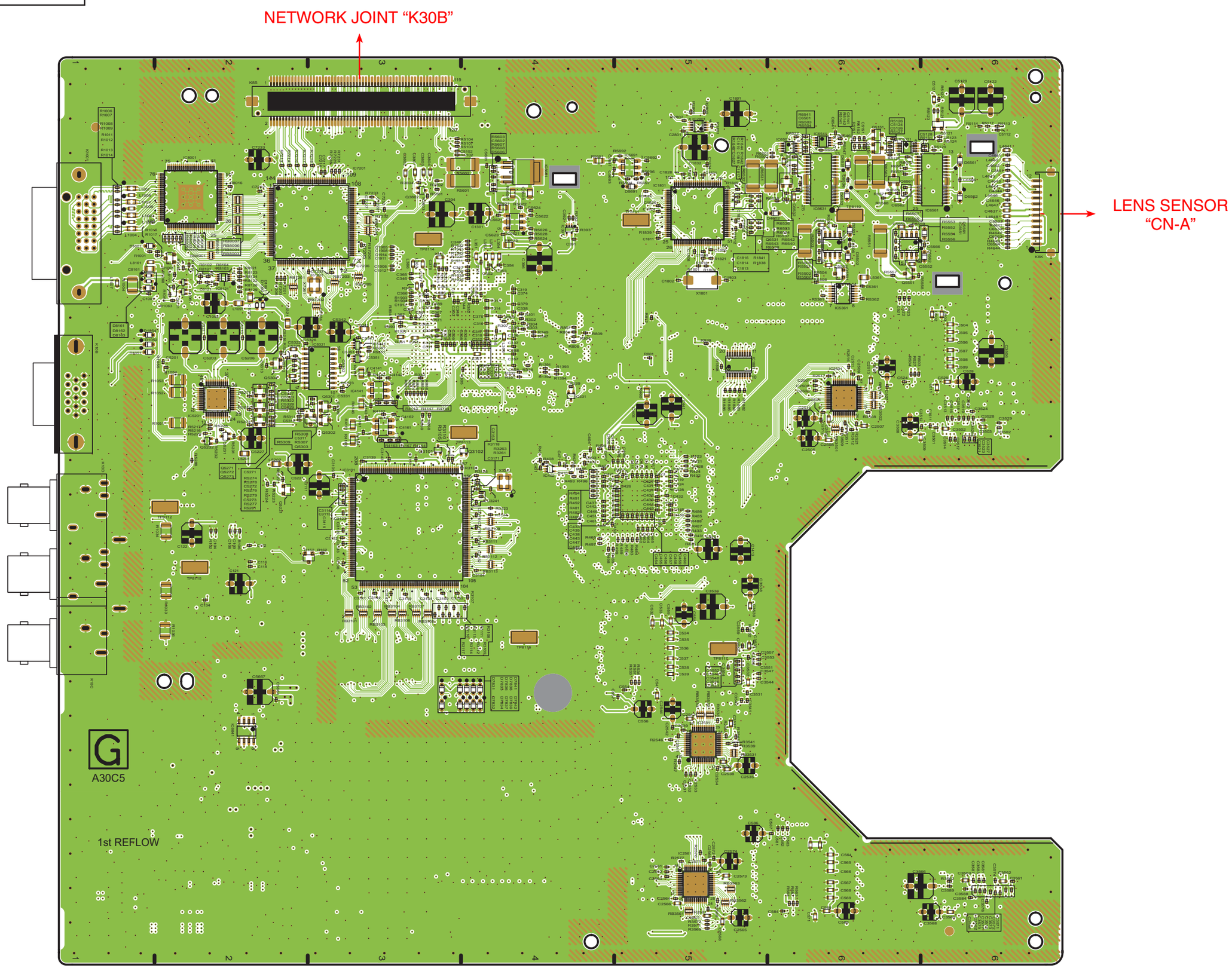
2. Do not shorten the circuit between hot and cold sides.
3. The grounding lead must be connected to the ground of the same circuit when measuring of voltages and waveforms.

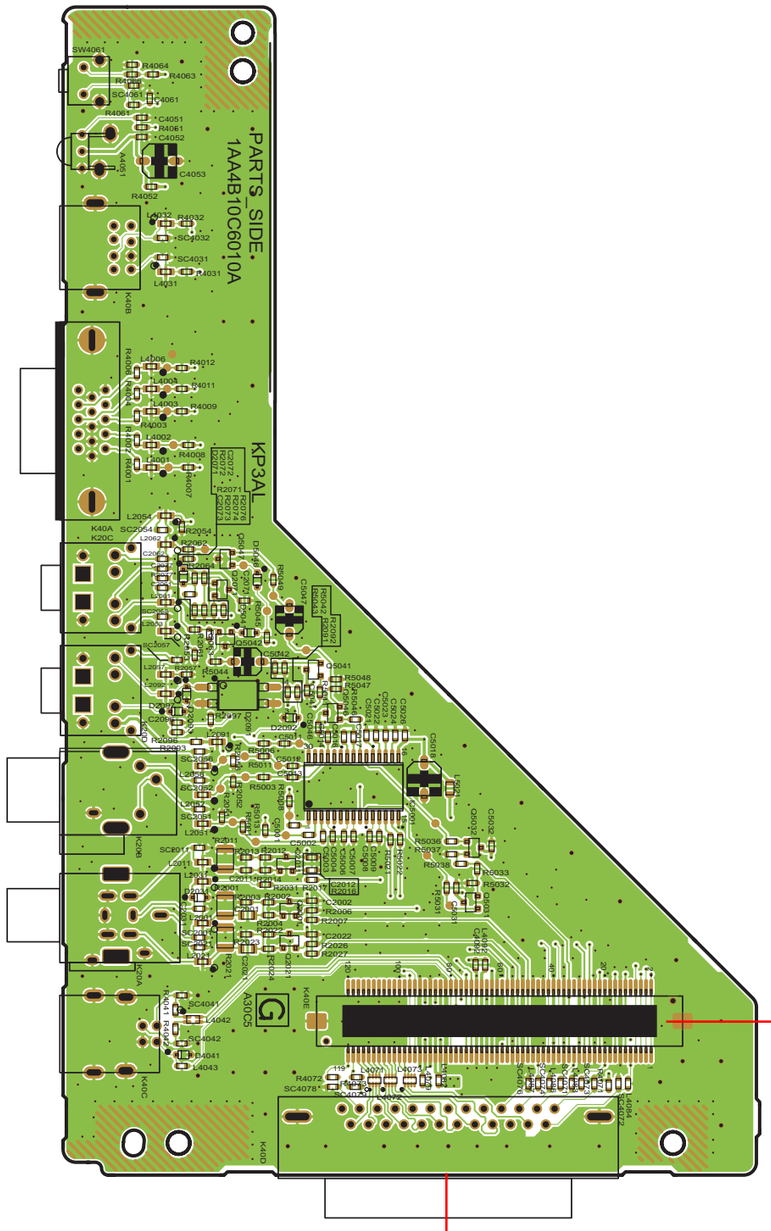
MAIN (SIDE:A)


SP901
R/C FRONT “K28A”
THERMISTOR TH901
ZOOM FOCUS MOTOR
THERMISTOR TH902
B-PANEL
G-PANEL
R-PANEL
SW902
LAMP BALLAST “K7B”
POWER(DC) “K66J”
POWER(DC) “K66A”
A30C5
1AA4B10C60000
2nd REFLOW
KP3AL

MAIN (SIDE:B)



AV (SIDE:A)



AV (SIDE:B)